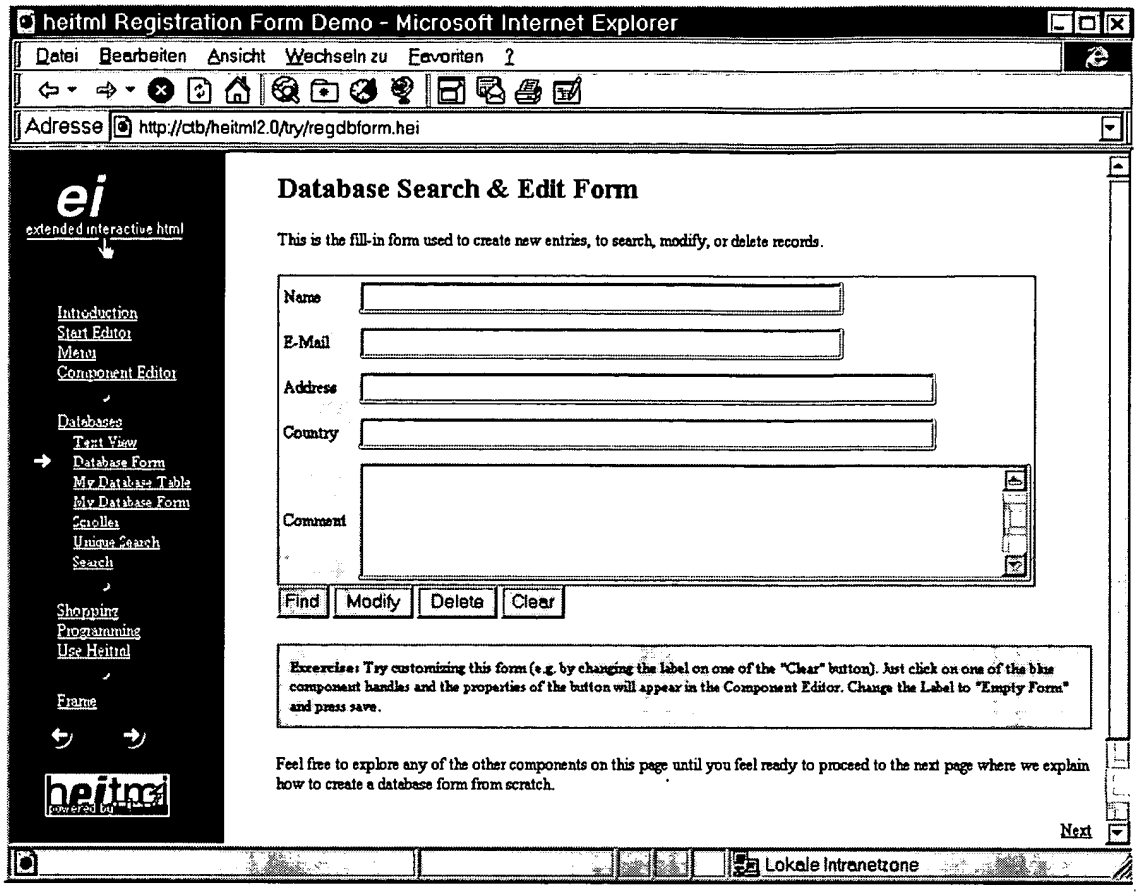
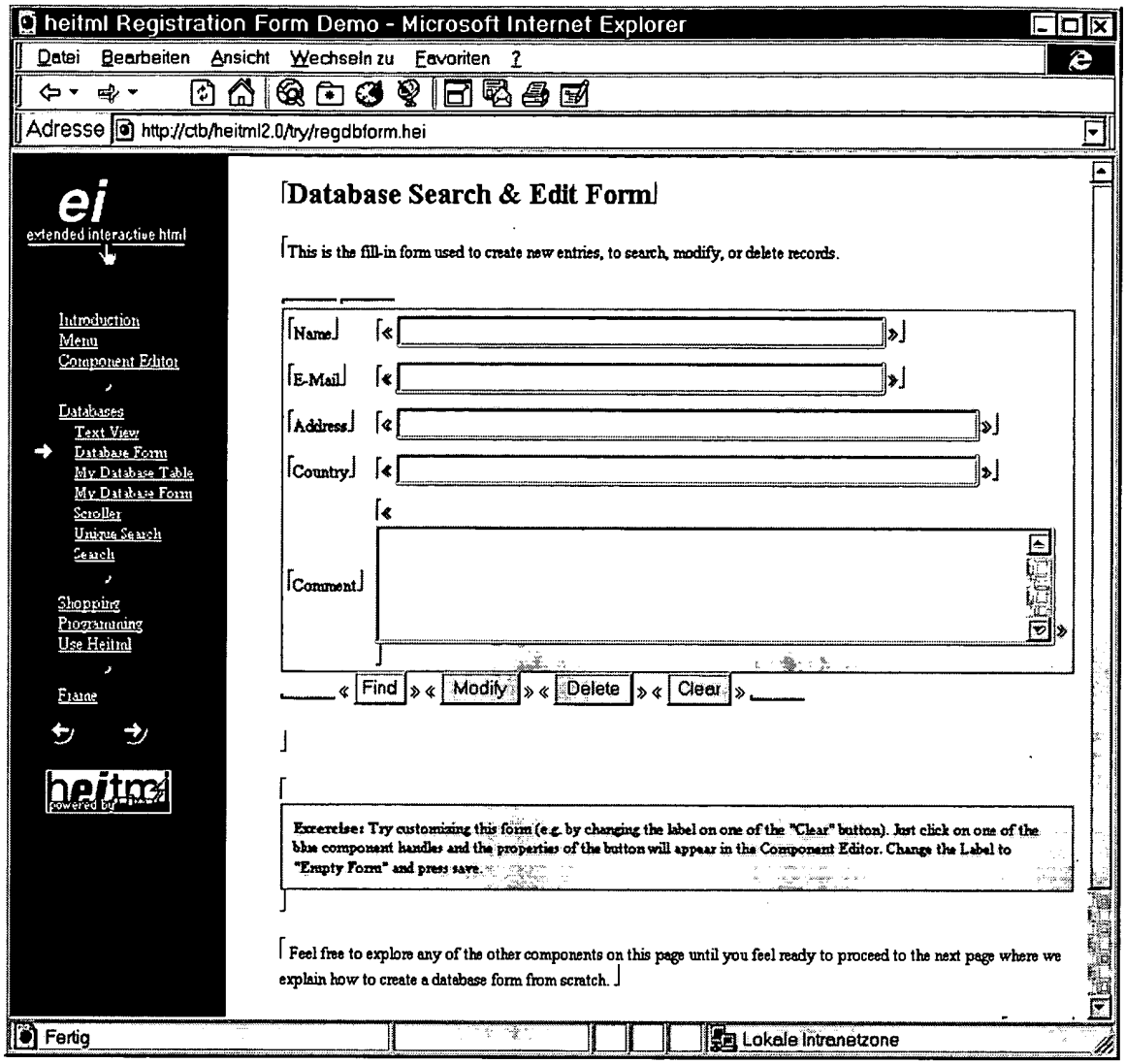

heitml Registration Form Demo - Microsoft Internet Explorer
Datei Bearbeiten Ansicht Wechseln zu Favoriten ?
Adresse http://ctb/heitml2.0/try/regdbform.hei
ei
extended interactive html
Introduction
Start Editor
Menu
Component Editor
Databases
Text View
Database Form
My Database Table
My Database Form
Scrollex
Unique Search
Search
Shopping
Programming
Use Heitml
Frame
heitml
Database Search & Edit Form
This is the fill-in form used to create new entries, to search, modify, or delete records.
Name
E-Mail
Address
Country
Comment
Find
Modify
Delete
Clear
Exercise: Try customizing this form (e.g. by changing the label on one of the "Clear" button). Just click on one of the blue component handles and the properties of the button will appear in the Component Editor. Change the Label to "Empty Form" and press save.
Feel free to explore any of the other components on this page until you feel ready to proceed to the next page where we explain how to create a database form from scratch.
Next
Lokale Intranetzone

Fig. 1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powered by
Database Search & Edit Form
This is the fill-in form used to create new entries, to search, modify, or delete records.
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Exercise: Try customizing this form (e.g. by changing the label on one of the "Clear" button). Just click on one of the blue component handles and the properties of the button will appear in the Component Editor. Change the Label to "Empty Form" and press save.
Feel free to explore any of the other components on this page until you feel ready to proceed to the next page where we explain how to create a database form from scratch.
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Lokale Intranetzone

Fig, 2

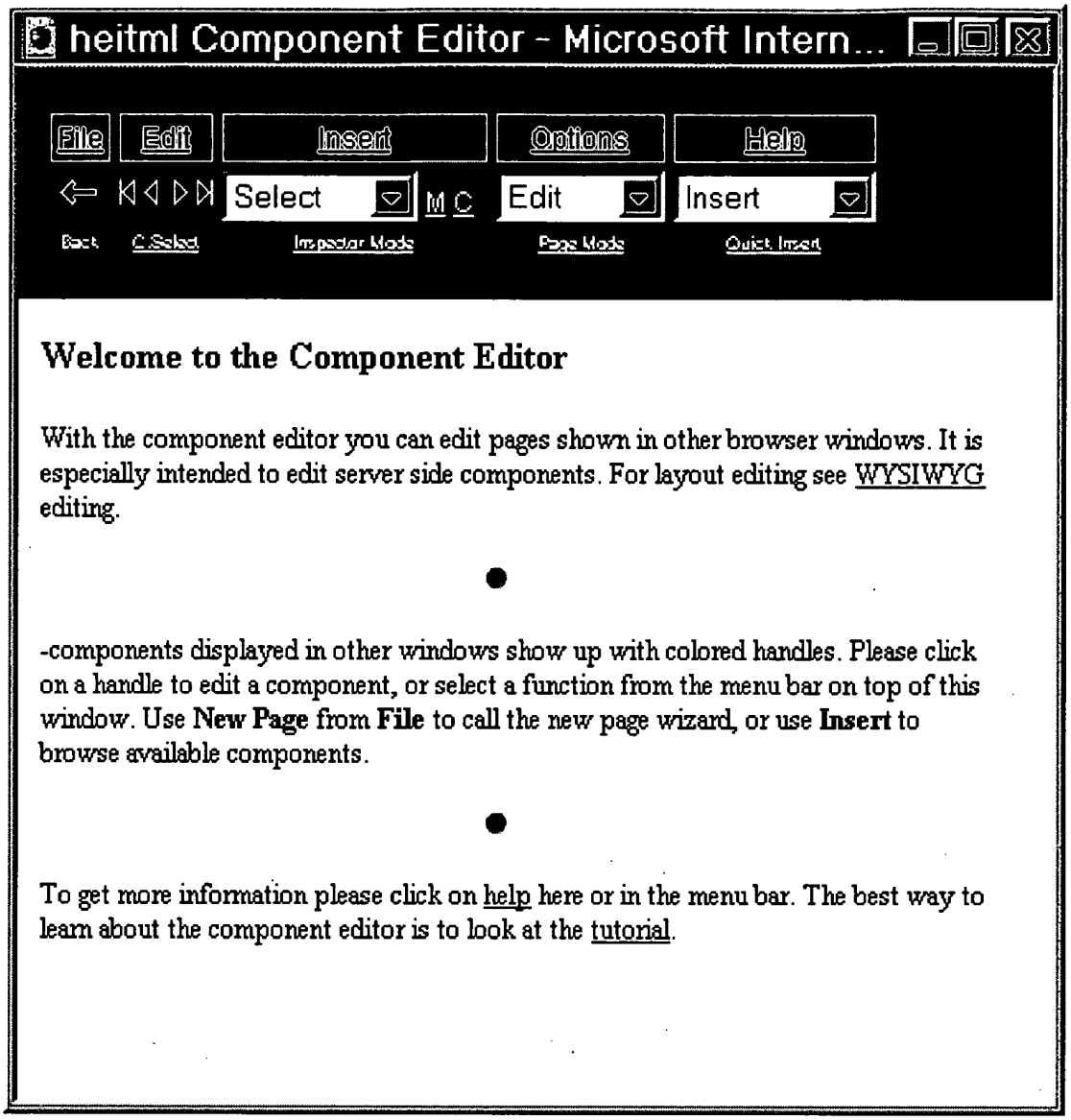


Fig. 3: Component Editor Window after Startup

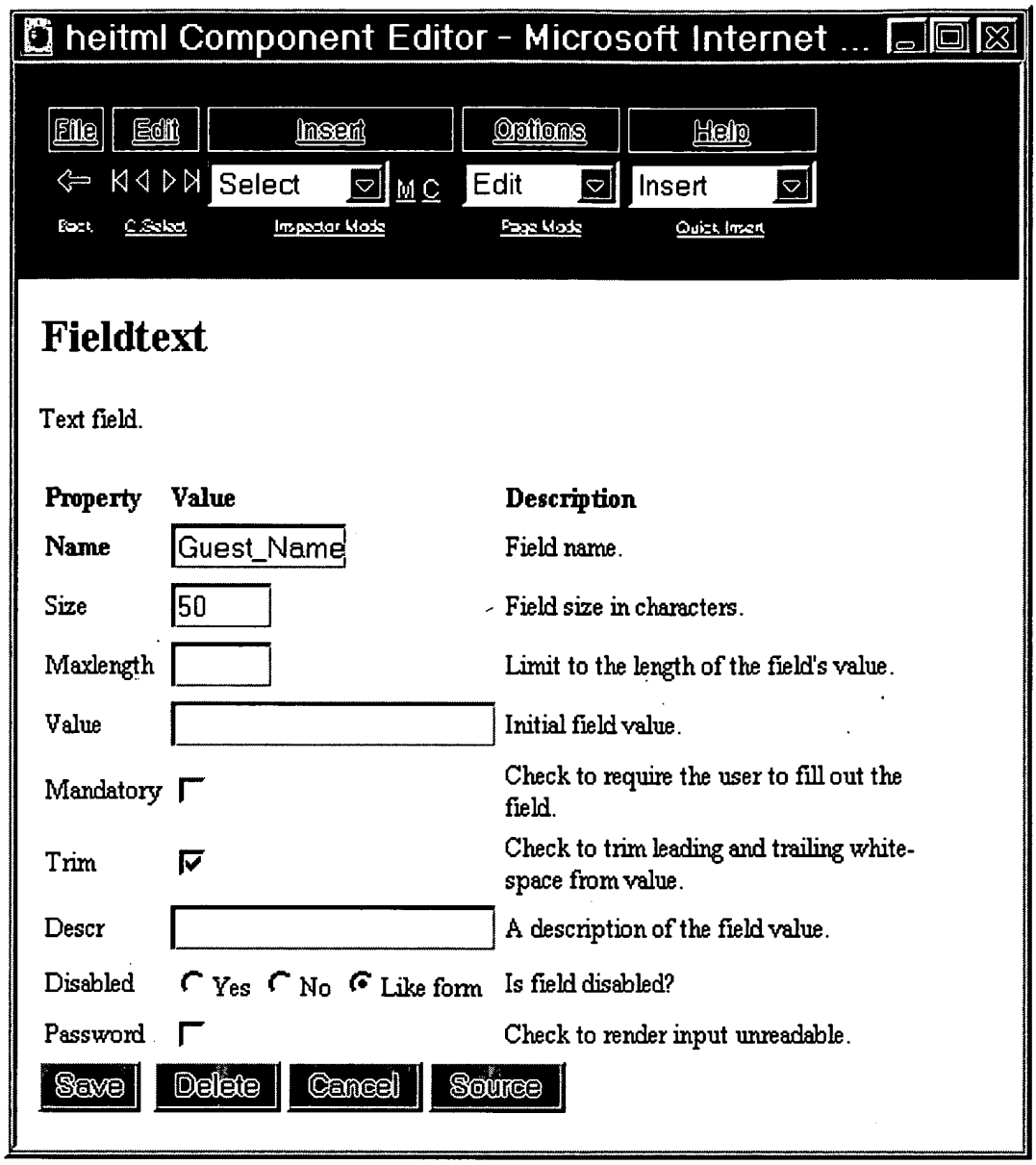


Fig 4: Component Editor Window displaying a Component Edit Page

```
<H1>Database Search & Edit Form</H1>
<P>This is the fill-in form used to create new entries, to search, modify, or delete records
<dbform id=se.dbform1 relation="guestbook" key="Guest_Name" method="post" >
  <table bgcolor="#90bb90" cellspacing=0 cellpadding=5 border=0 >
    <tr><td> Name</td>
        <td><dbfield name="Guest_Name" size=50 mandatory=false trim=true></td></tr>
    <tr> <td> E-Mail</td>
        <td><dbfield name="Email" size=50 mandatory=false trim=true></td></tr>
    <tr><td>Address</td><dbfield name="Address" size=60 mandatory=false trim=true></td></tr>
    <tr><td>Country</td><td><dbfield name="Country" size=60 mandatory=false trim=true></td></tr>
    <tr><td>Comment</td><td> <dbfield name="Comment" rows=5 cols=60></td></tr>
  </TABLE>
  <dbformbutton name="find" type="find" ></dbformbutton>
  <dbformbutton name="modify" type="modify"></dbformbutton>
  <dbformbutton name="delete" type="delete"></dbformbutton>
  <dbformbutton name="clear" type="clear" ></dbformbutton>
</dbform>
```

Fig.5: Page Source of Sample Page

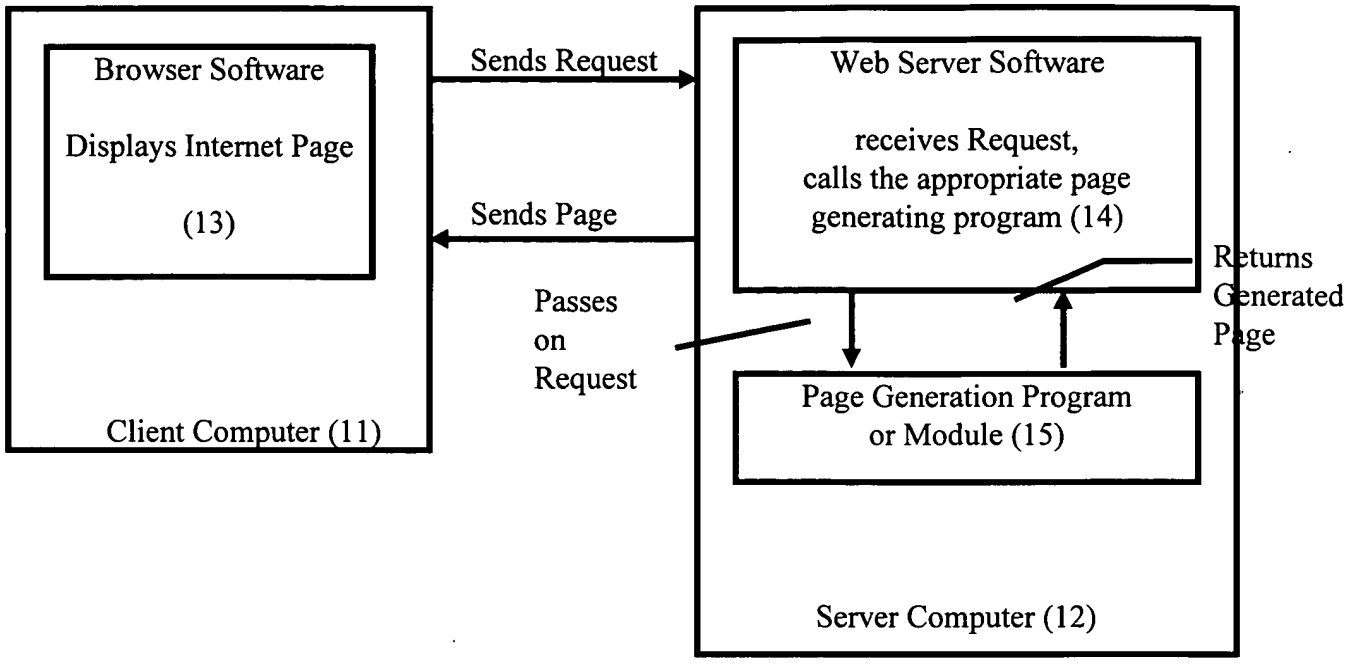


Fig. 6: State of the Art Model for Server Based Internet Applications

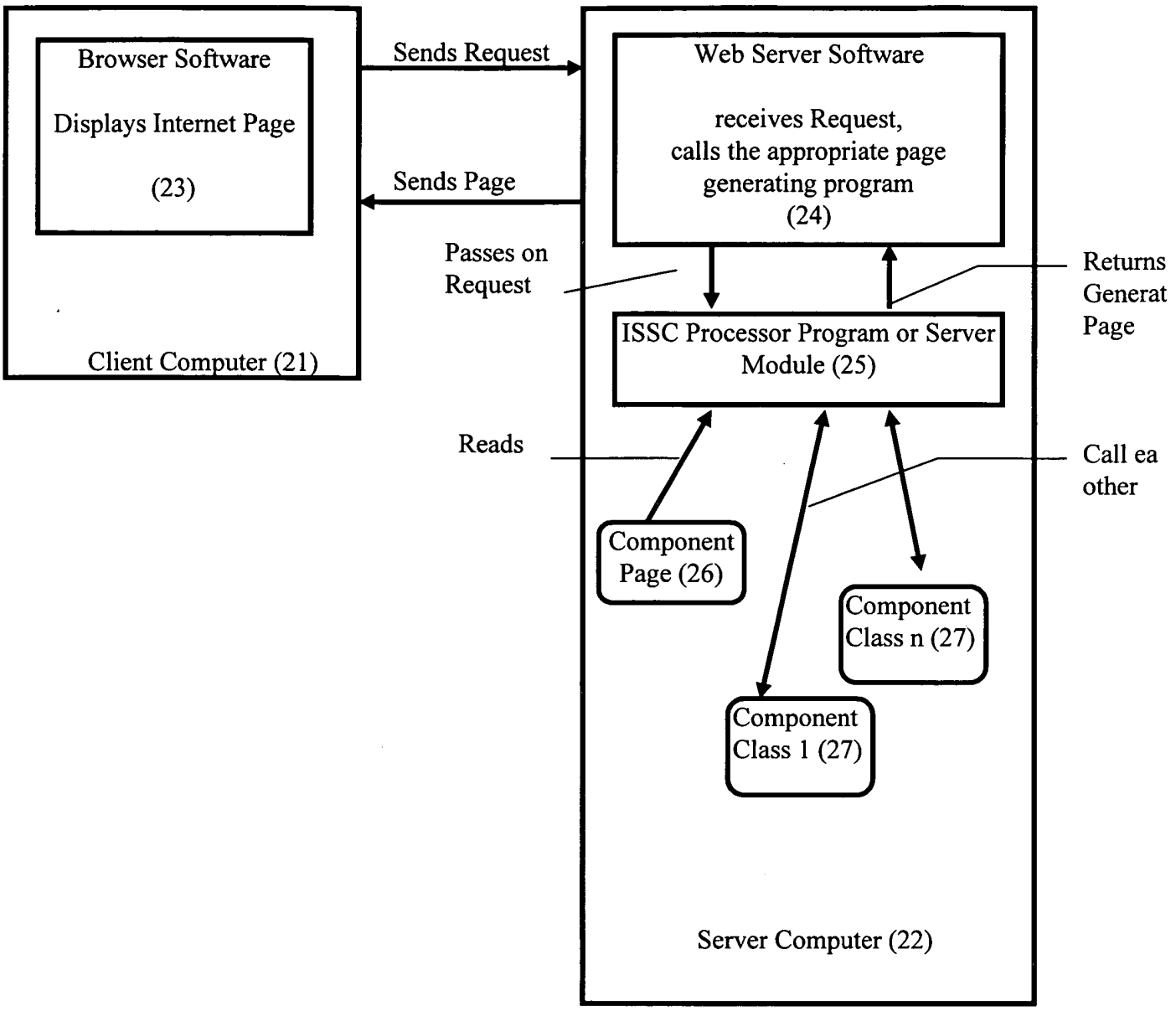


Fig. 7: Model for Server Based Internet Applications with ISSCs

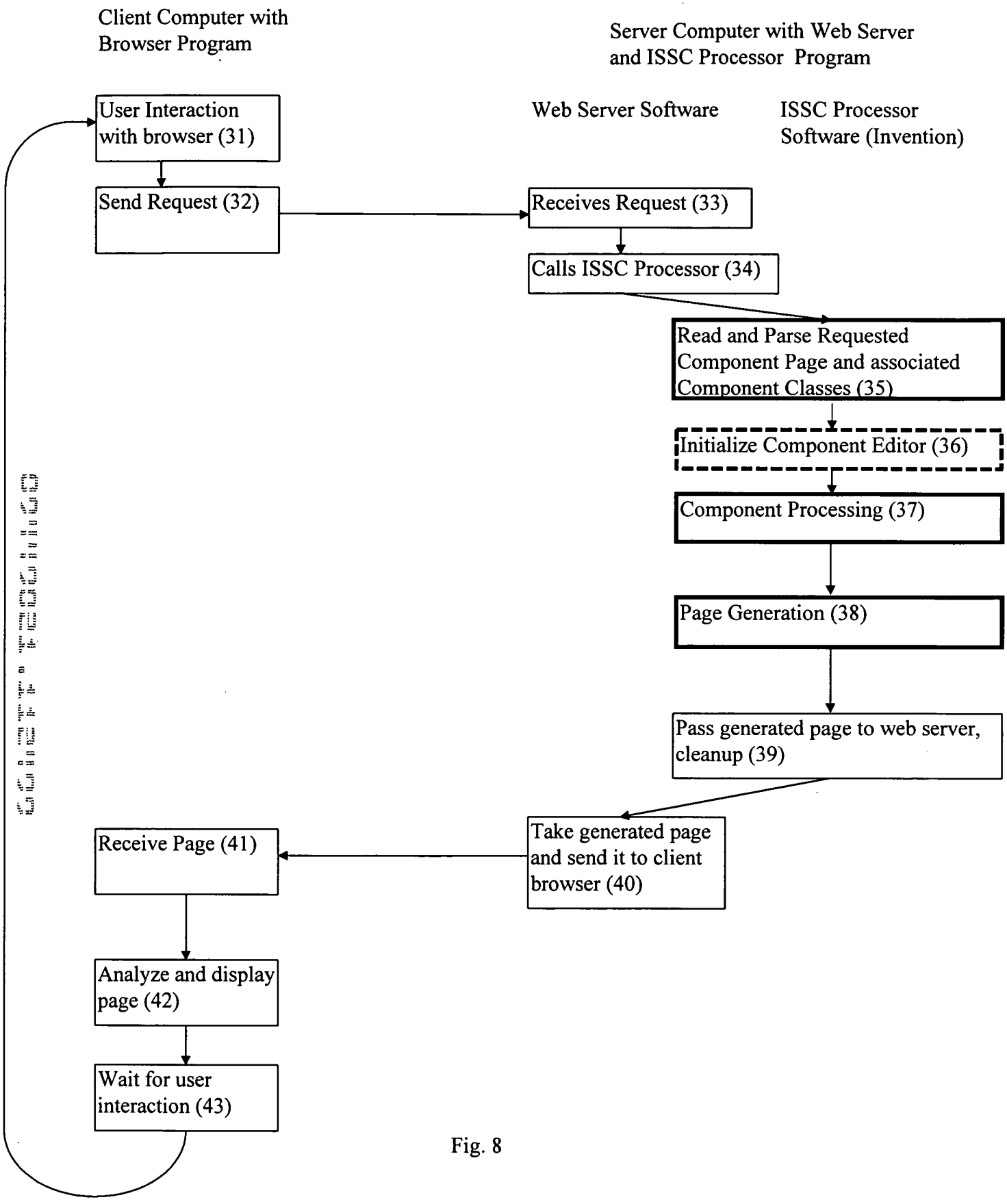

Client Computer with Browser Program
Server Computer with Web Server and ISSC Processor Program
Web Server Software
ISSC Processor Software (Invention)
User Interaction with browser (31)
Send Request (32)
Receives Request (33)
Calls ISSC Processor (34)
Read and Parse Requested Component Page and associated Component Classes (35)
Initialize Component Editor (36)
Component Processing (37)
Page Generation (38)
Pass generated page to web server, cleanup (39)
Take generated page and send it to client browser (40)
Receive Page (41)
Analyze and display page (42)
Wait for user interaction (43)

Fig. 8

Generation Algorithm

Parameter l is a cb-list

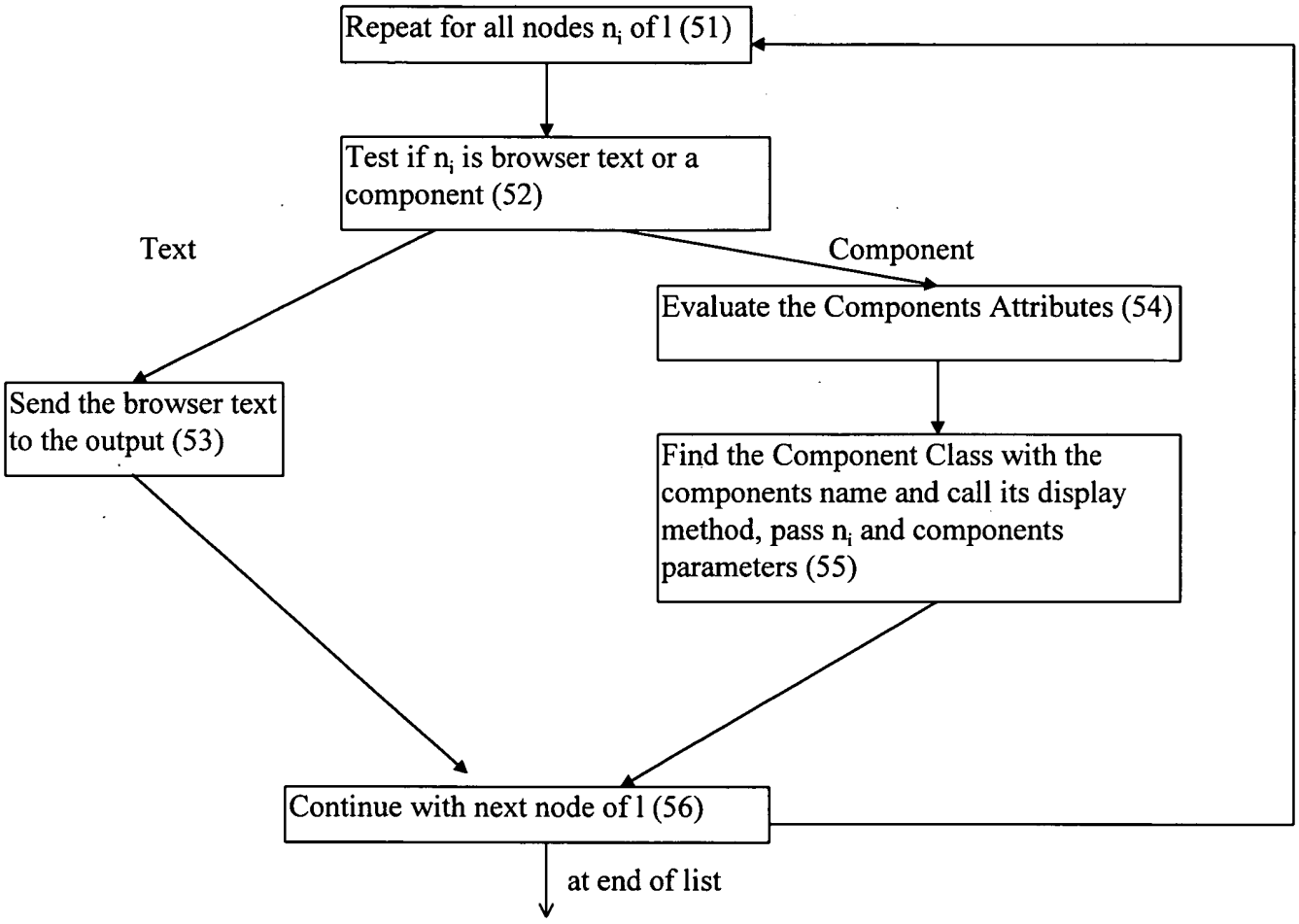


Fig. 9: Generation Algorithm

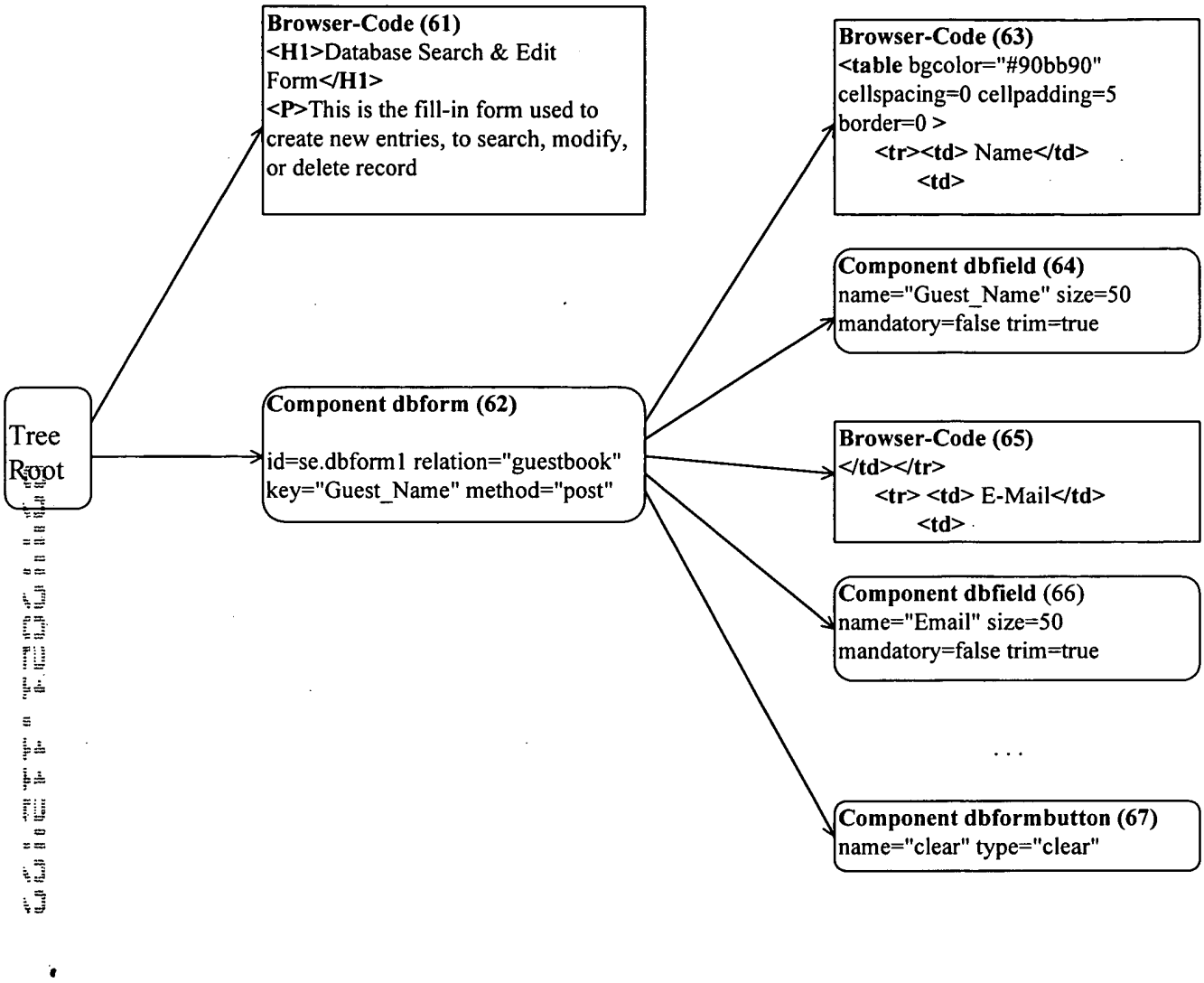


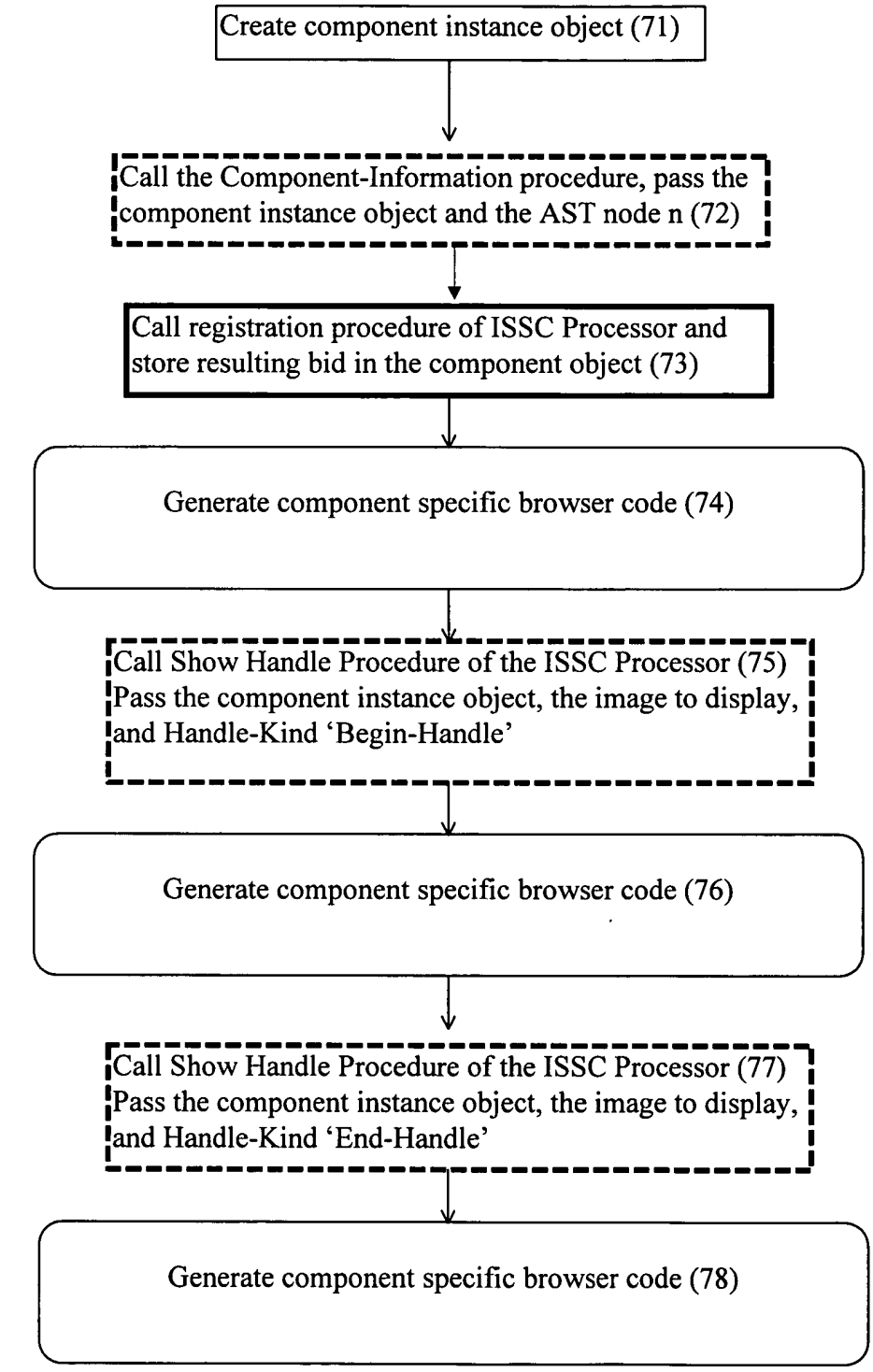
Fig. 10: Example Abstract Syntax Tree (AST)

Display Method of a Component Class

Parameters:

AST Node: n

Parameter Values given in the Tag marking the Component



This sometimes is done implicitaly by the programming language since display is a constuctor

These calls can usually be inherited using an object oriented programming language.

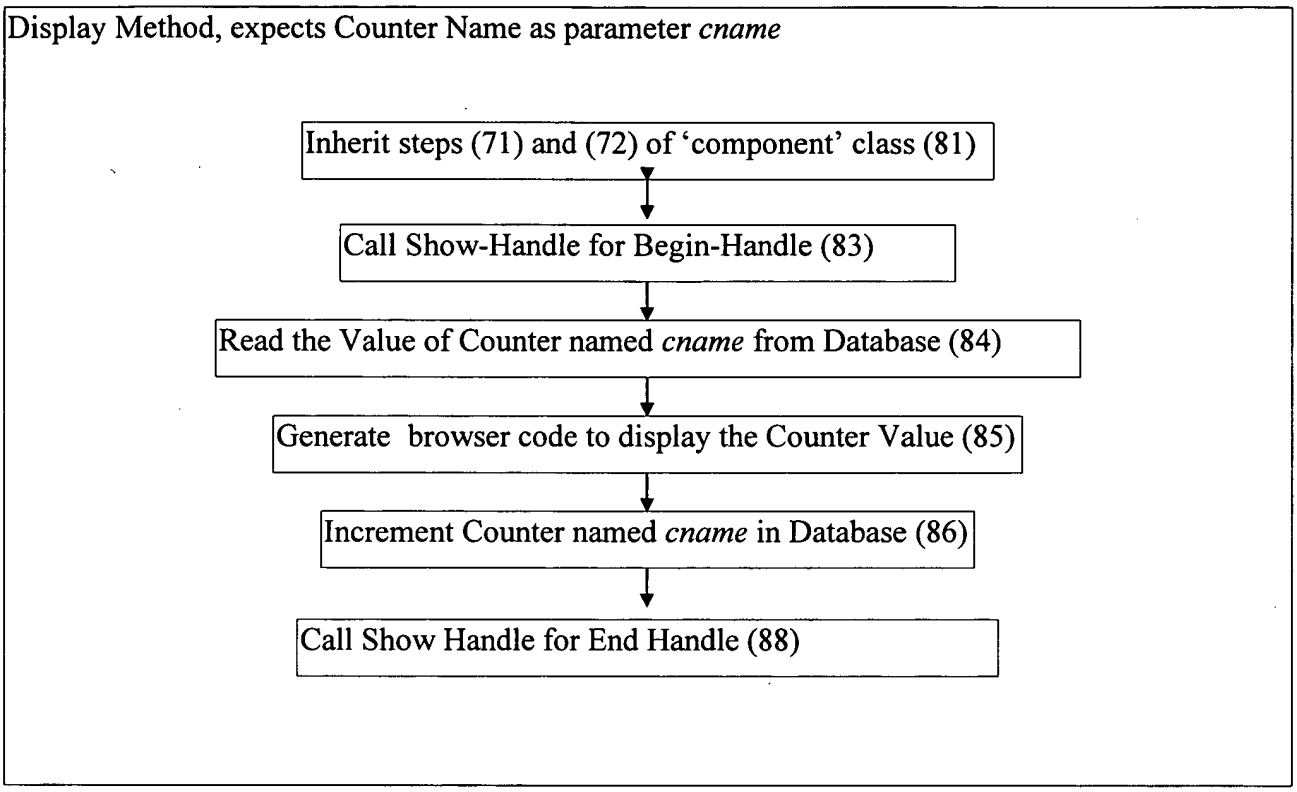
Boxes with round corners define source code parts to be programmed per component

Boxes with broken lines call the component editor. These procedures work only if pages are displayed in edit-mode. To understand the component algorithm they

Fig.11: Display Method Algorithm Structure

Sample Component Class: Counter

Inherit from Class 'Component'



Steps (82) and (87) are not present because Drawing 9 shows an extended counter that has the same step numbers and uses (2) and (7)

Fig. 12: Example Counter Component Class

Registration Procedure

Parameter:

Component Instance

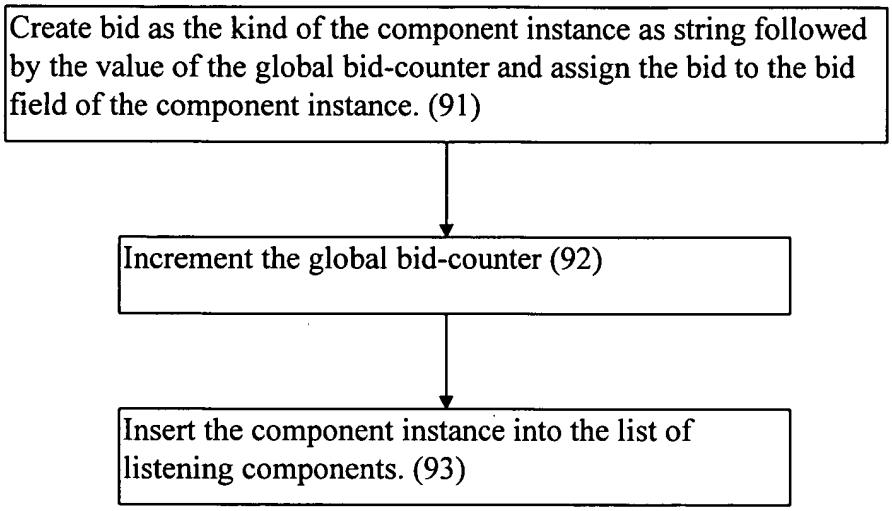


Fig. 13: Registration Procedure

Component Processing Algorithm

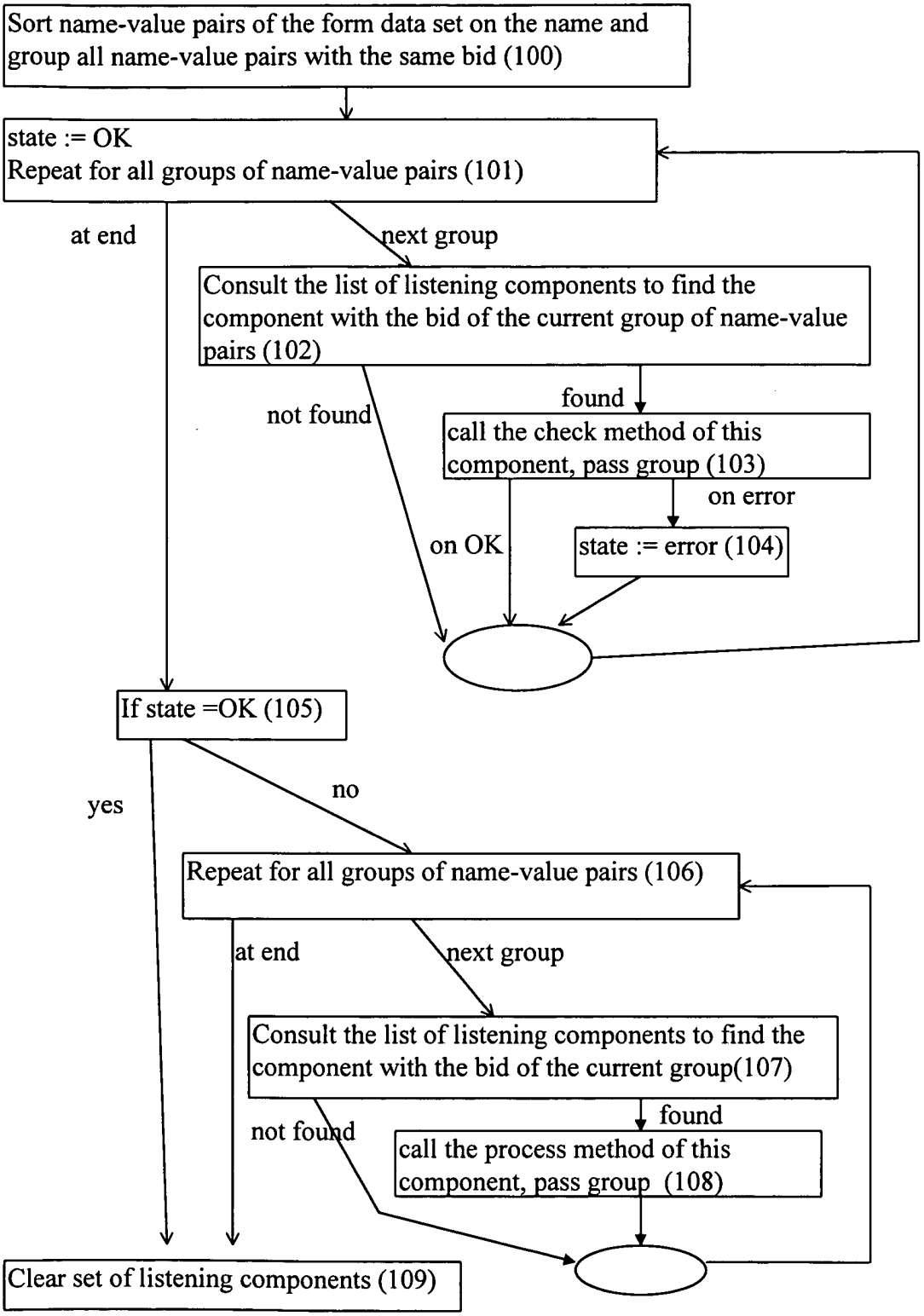


Fig. 14: Component Processing Algorithm

Sample Component Class: Counter with Reset

Inherit from Class 'Component'

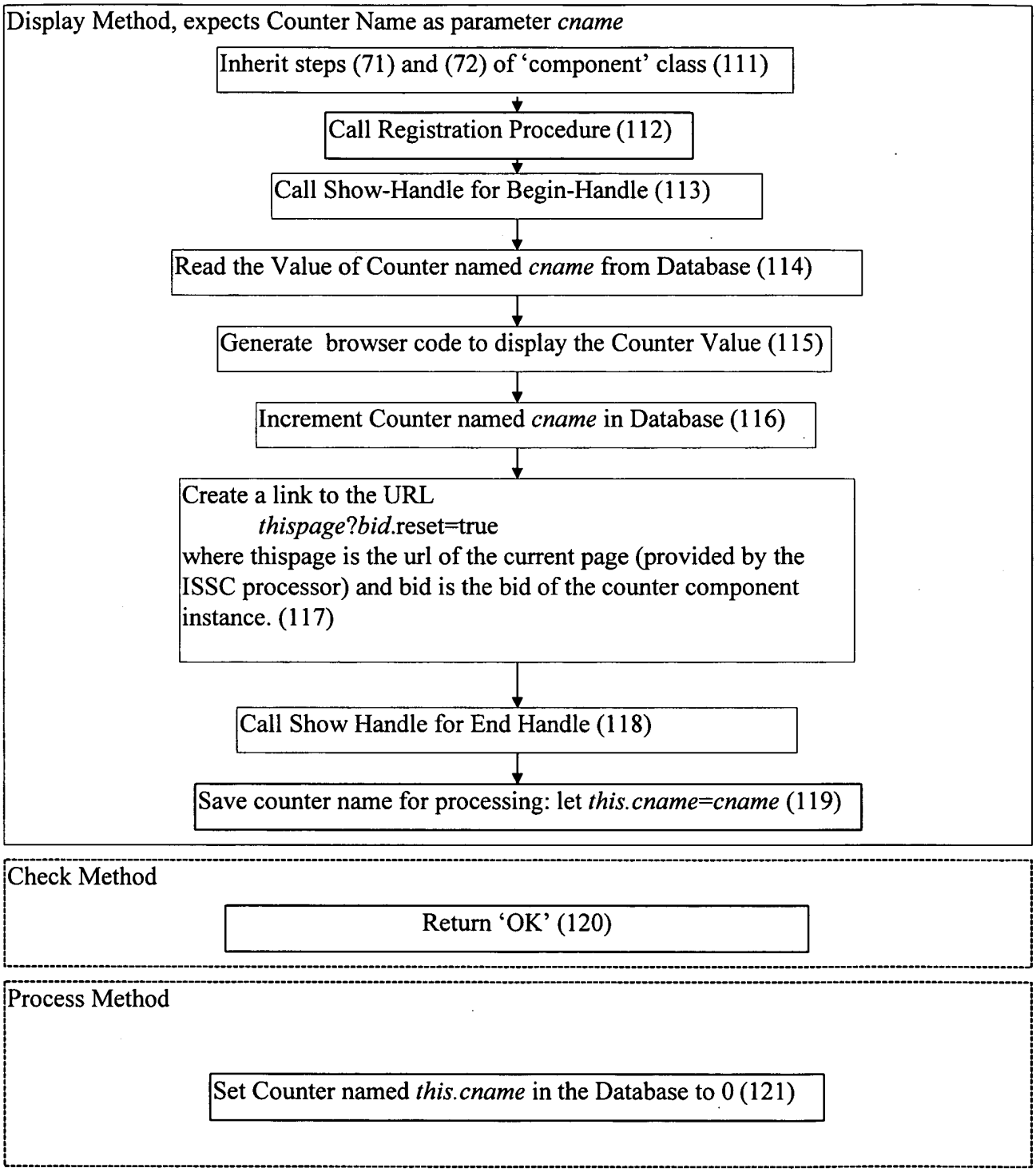


Fig. 15: Example Component Class for Counter with Reset

Sample Component Class: dbinsertpanel

Inherit from Class 'Component'

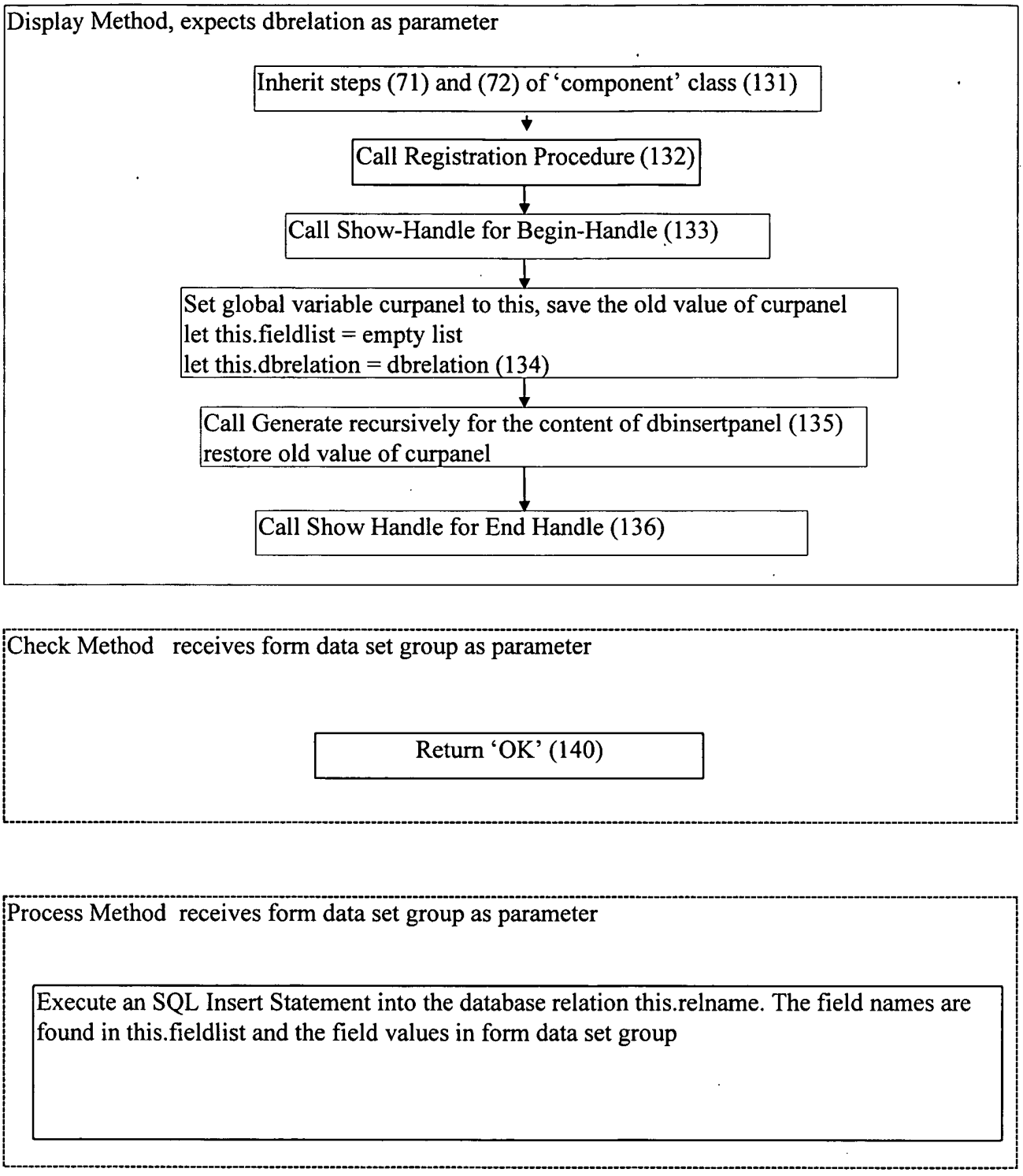


Fig. 16: Example Component Class for dbinsertpanel

Example Component Class: dbinsertfield

Inherit from Class 'Component'

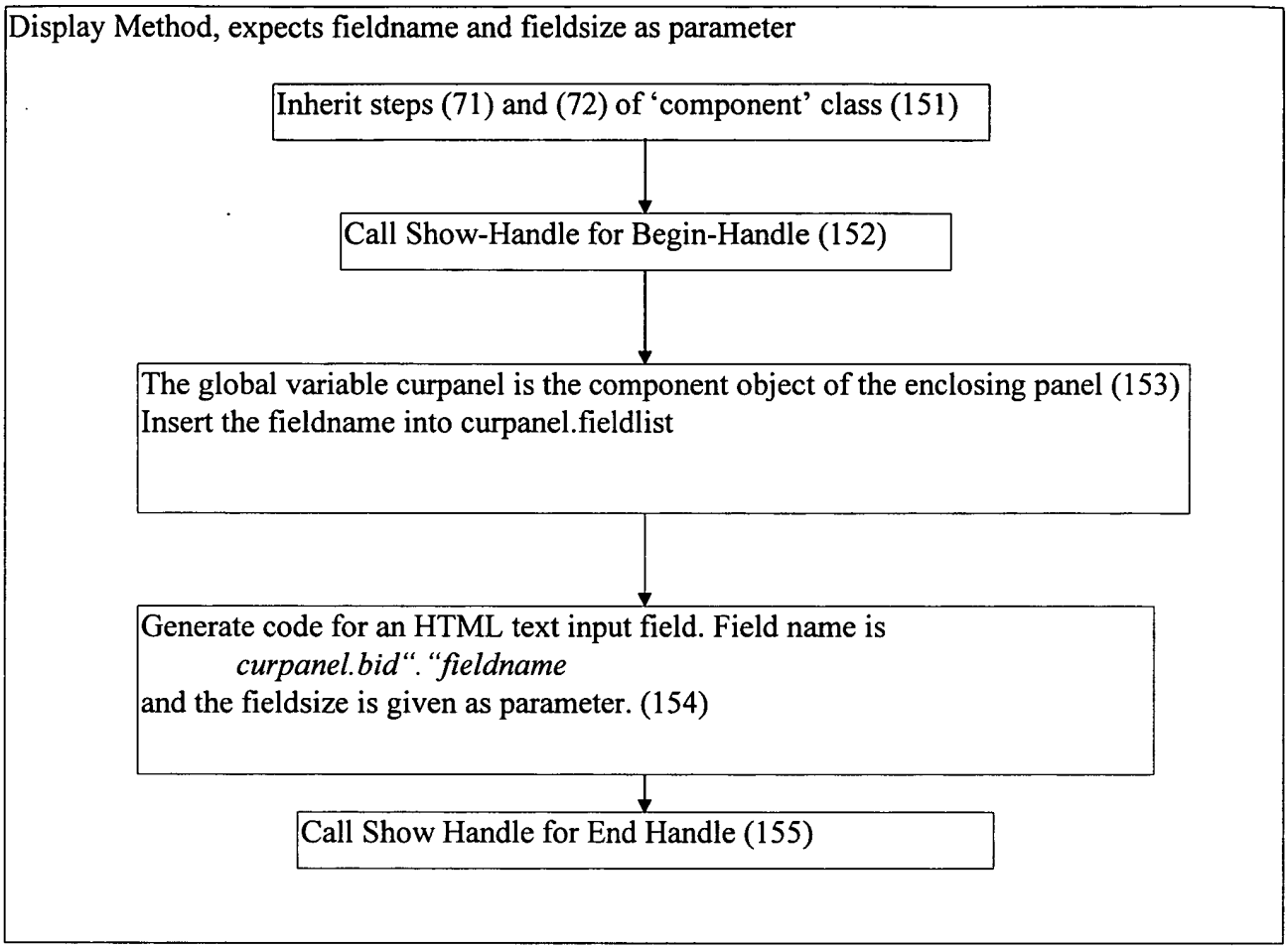


Fig. 17: Example Component Class for dninsertfield

Editor Structure

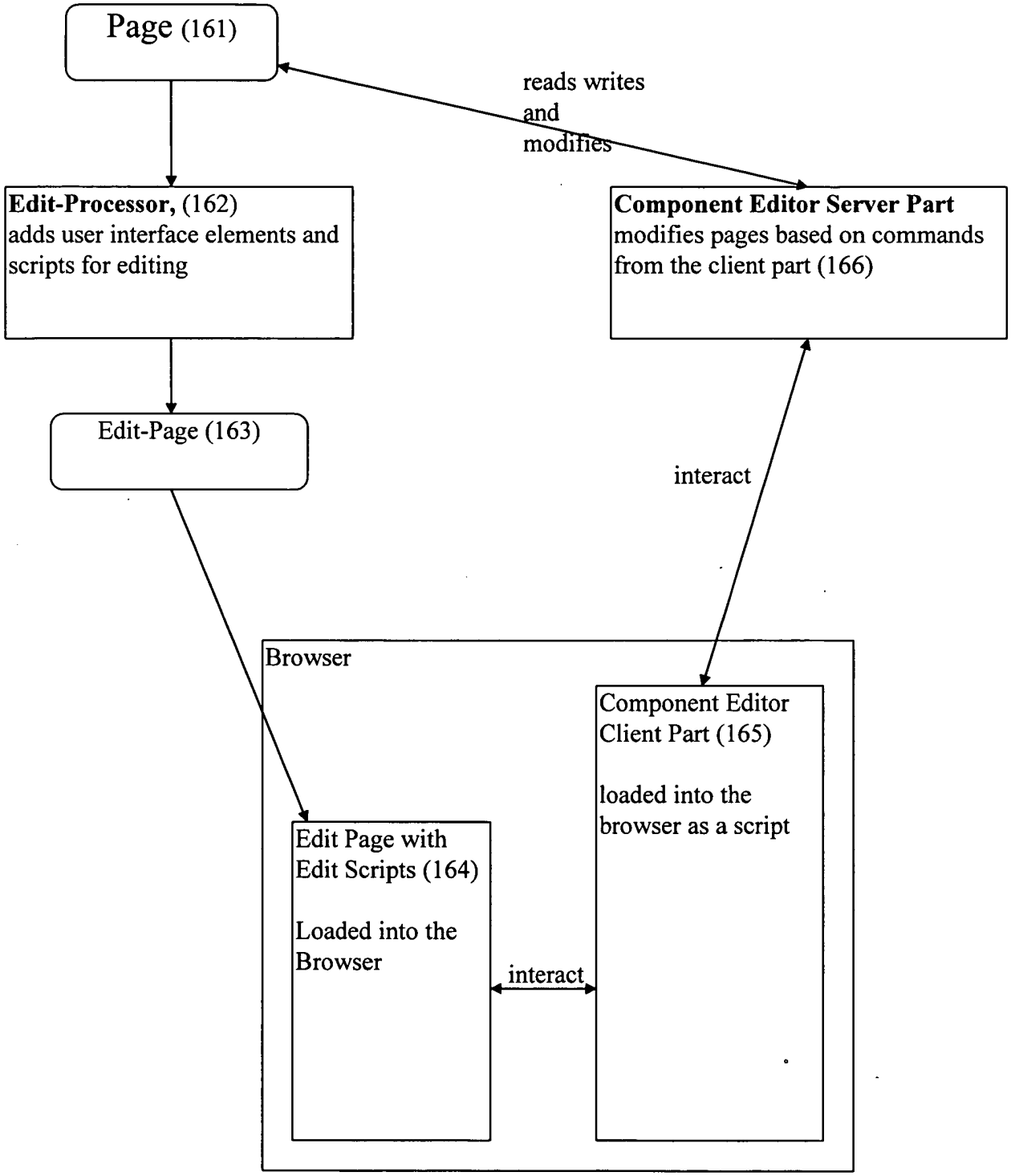


Fig.18: Editor Structure

Component Editor Initialization Procedure

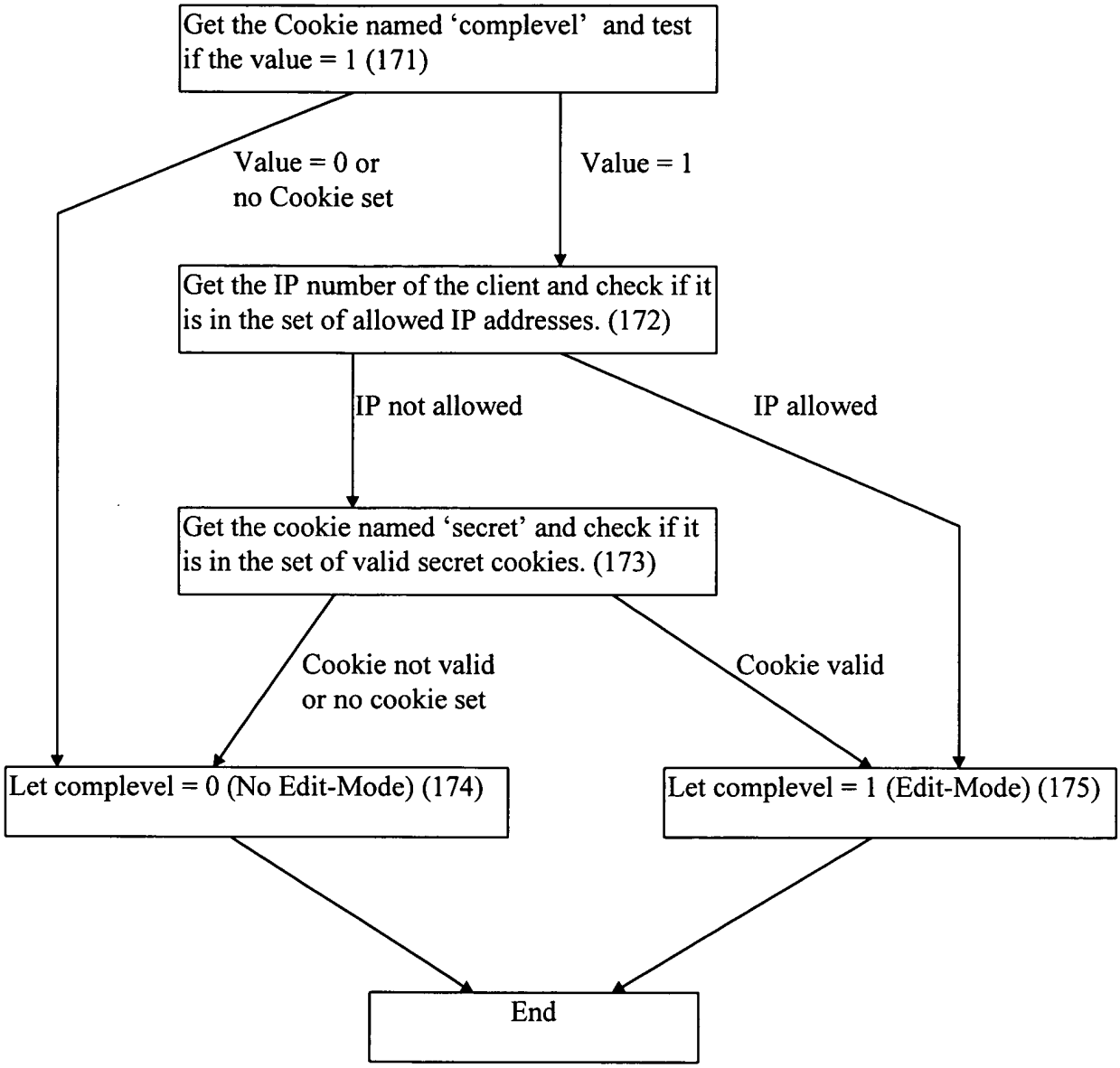


Fig.19: Component Editor Initialization Procedure

Component Information Procedure

Parameters

Component node n of AST,
Current component Instance

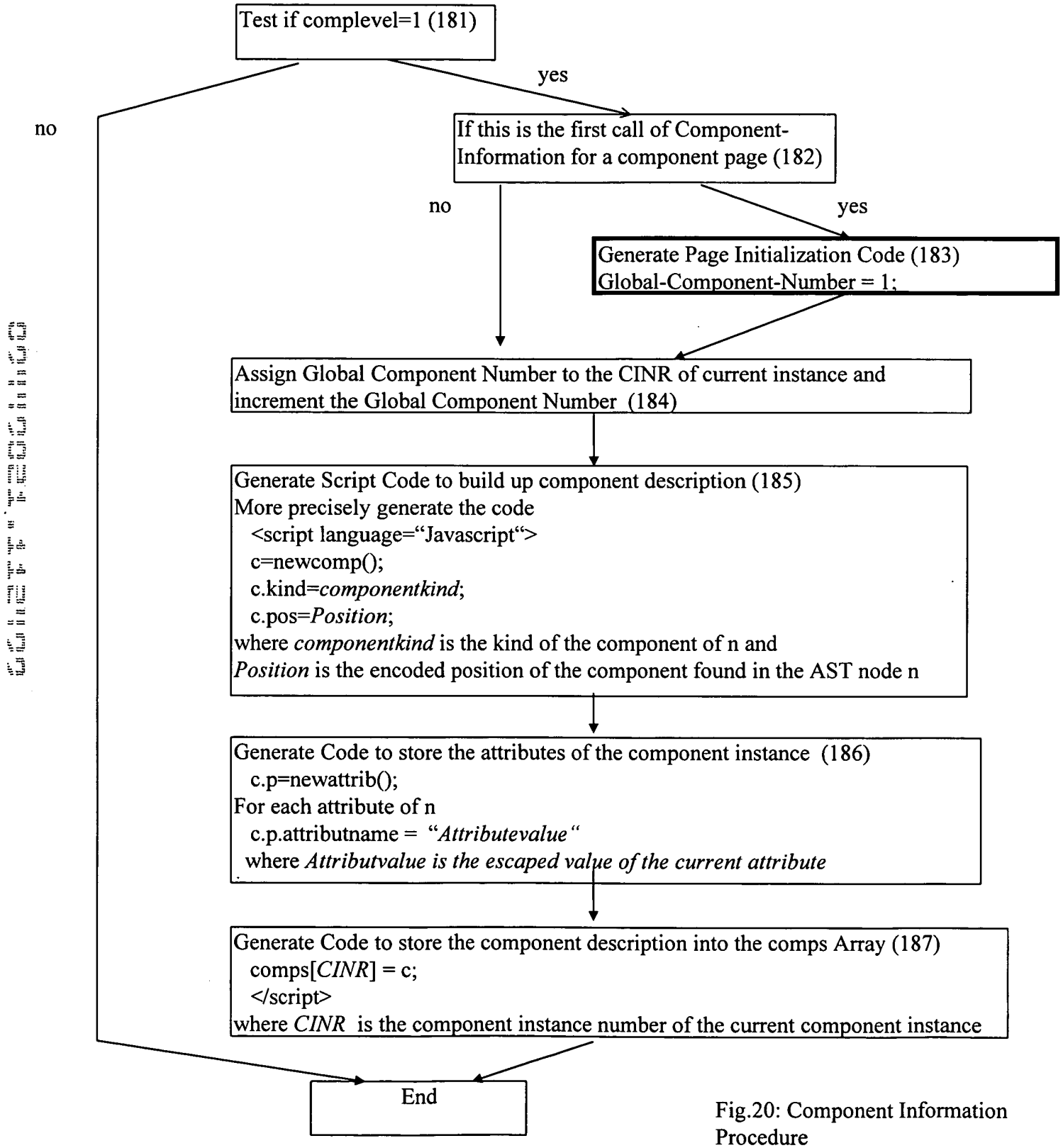


Fig.20: Component Information Procedure

Show-Handle Procedure

Parameters

Current Component Instance
Handle Kind: Begin-Handle or End-Handle
Handle Image: im

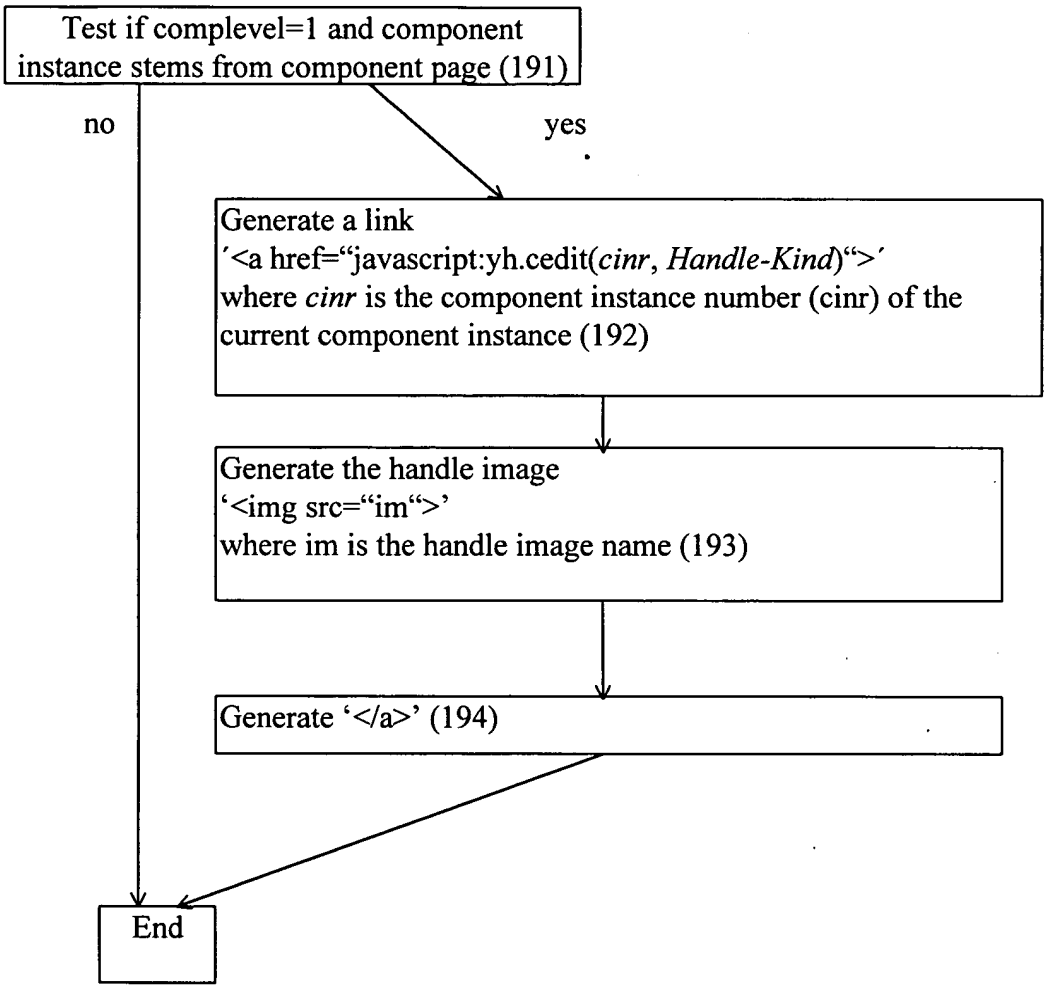


Fig.21: Component Editor Show Handle Procedure

Generate-Page-Initialization-Code

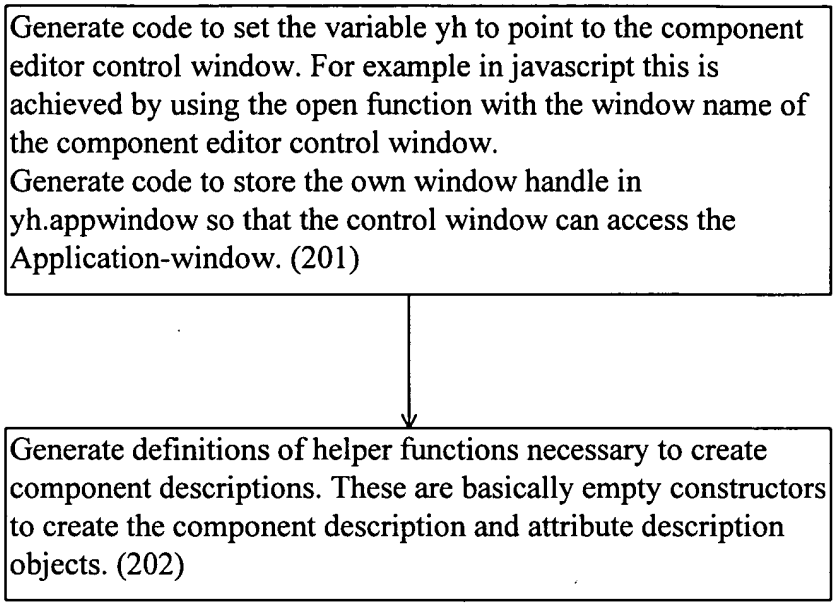
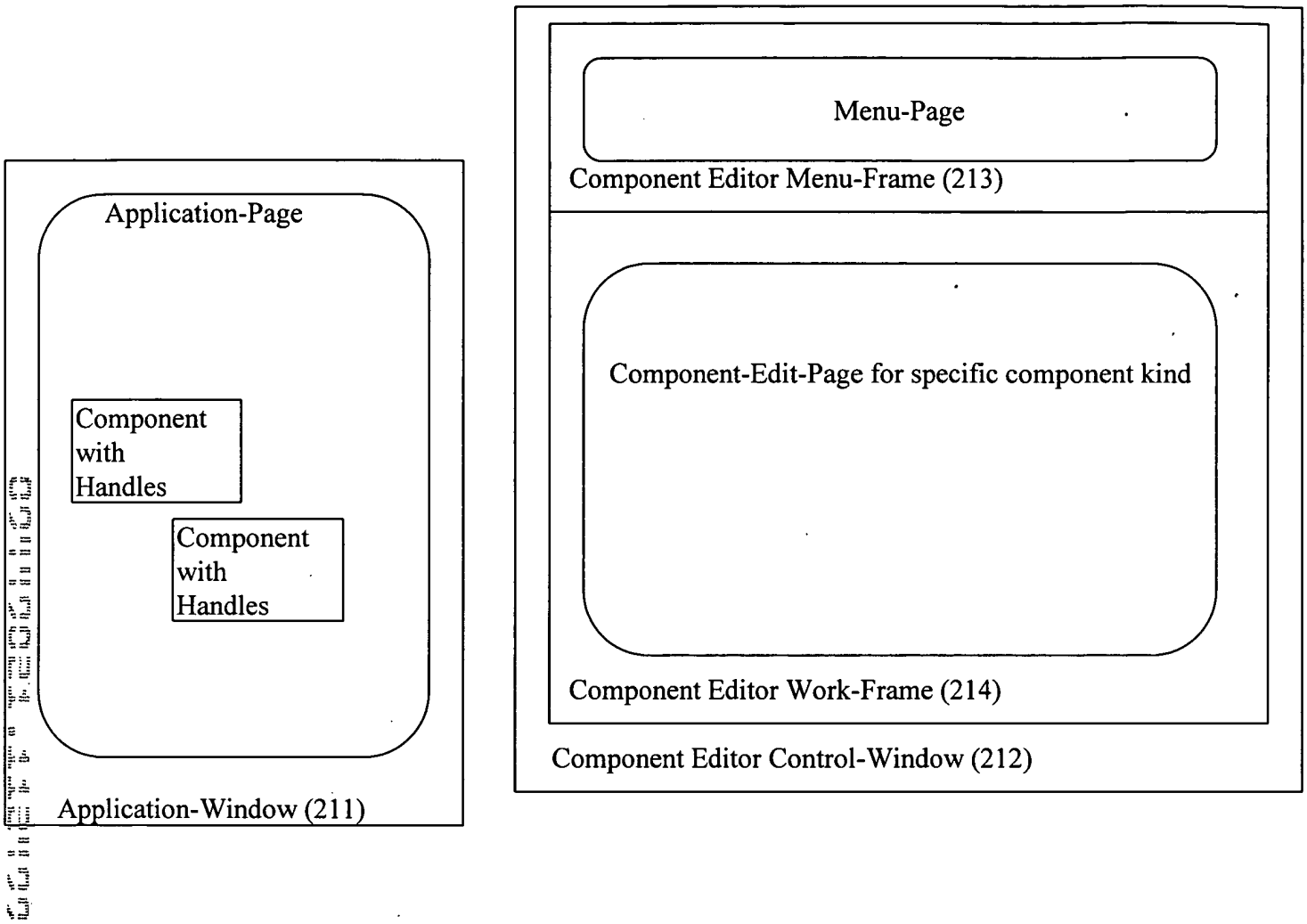


Fig.22: Generate Page Initialization Code

Structure Component Editor Client Part



Fig,23: Structure Component Editor Client Part

Component Editor Client Part Pages

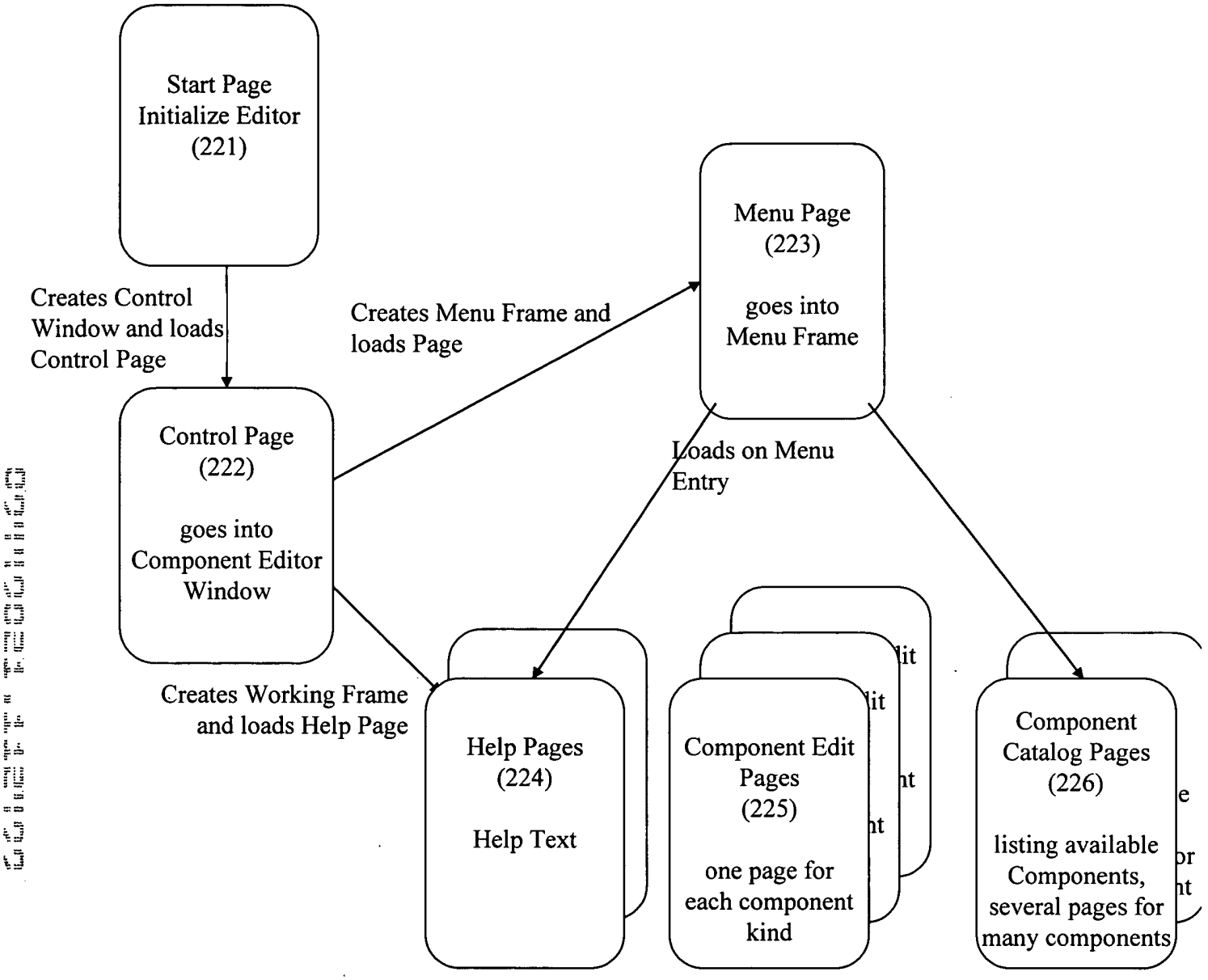


Fig.24: Component Editor Client Part Page Structure

Component Editor Start Page

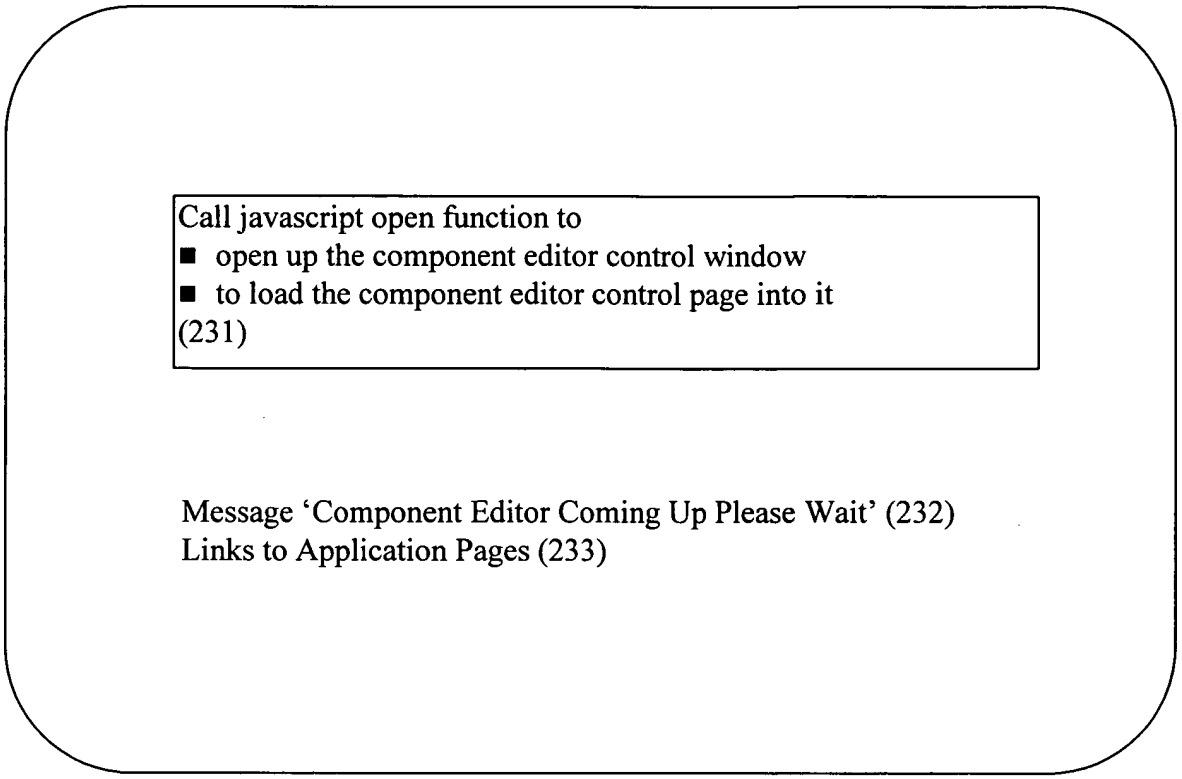


Fig. 25: Component Editor Start Page

Component Editor Control Page

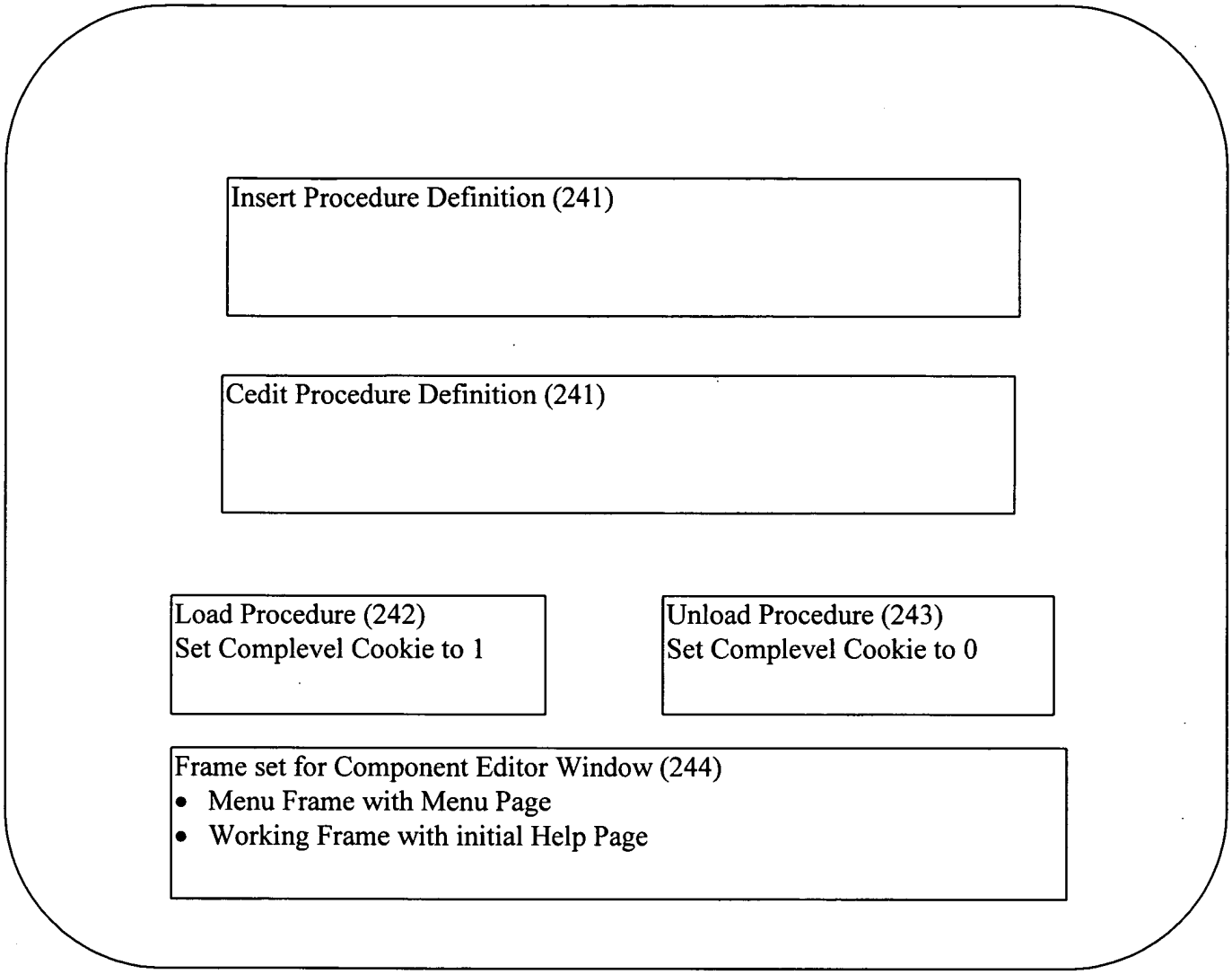


Fig. 26: Component Editor Control Page

Insert Procedure

Parameter: Component Kind

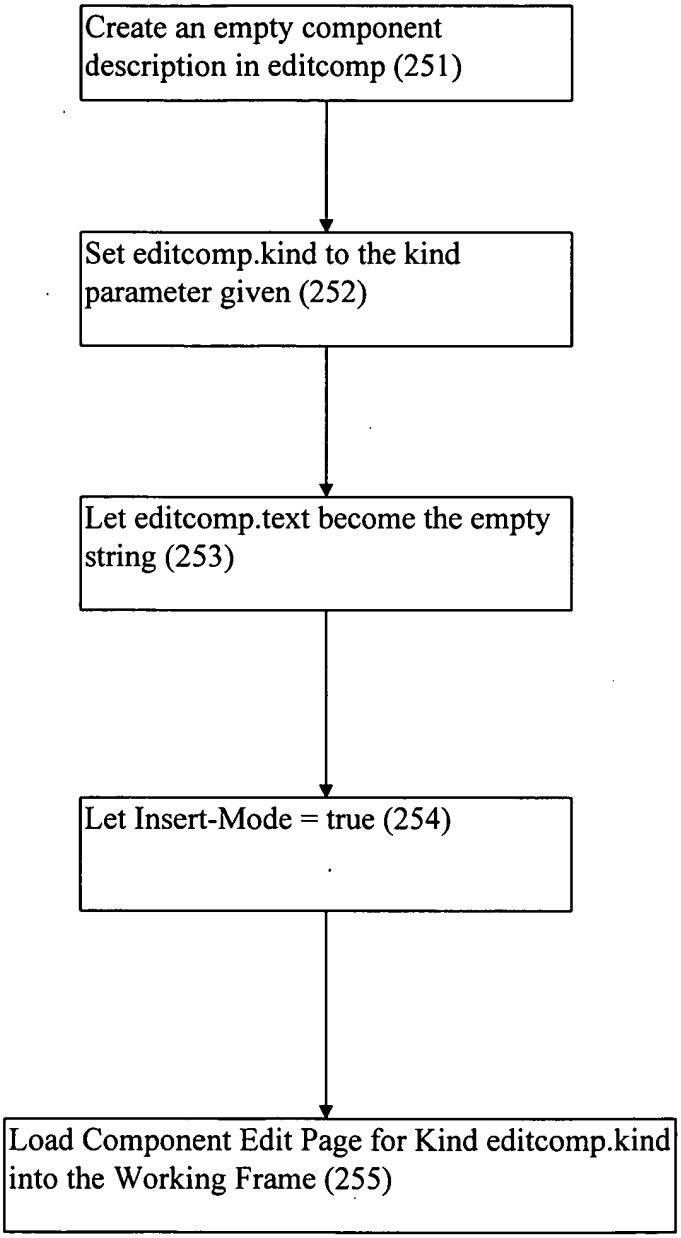


Fig. 27: Insert Procedure

cedit Procedure

Parameters

Window: w

Component Instance Number: cn

Handle Kind (Begin or End Handle): hk

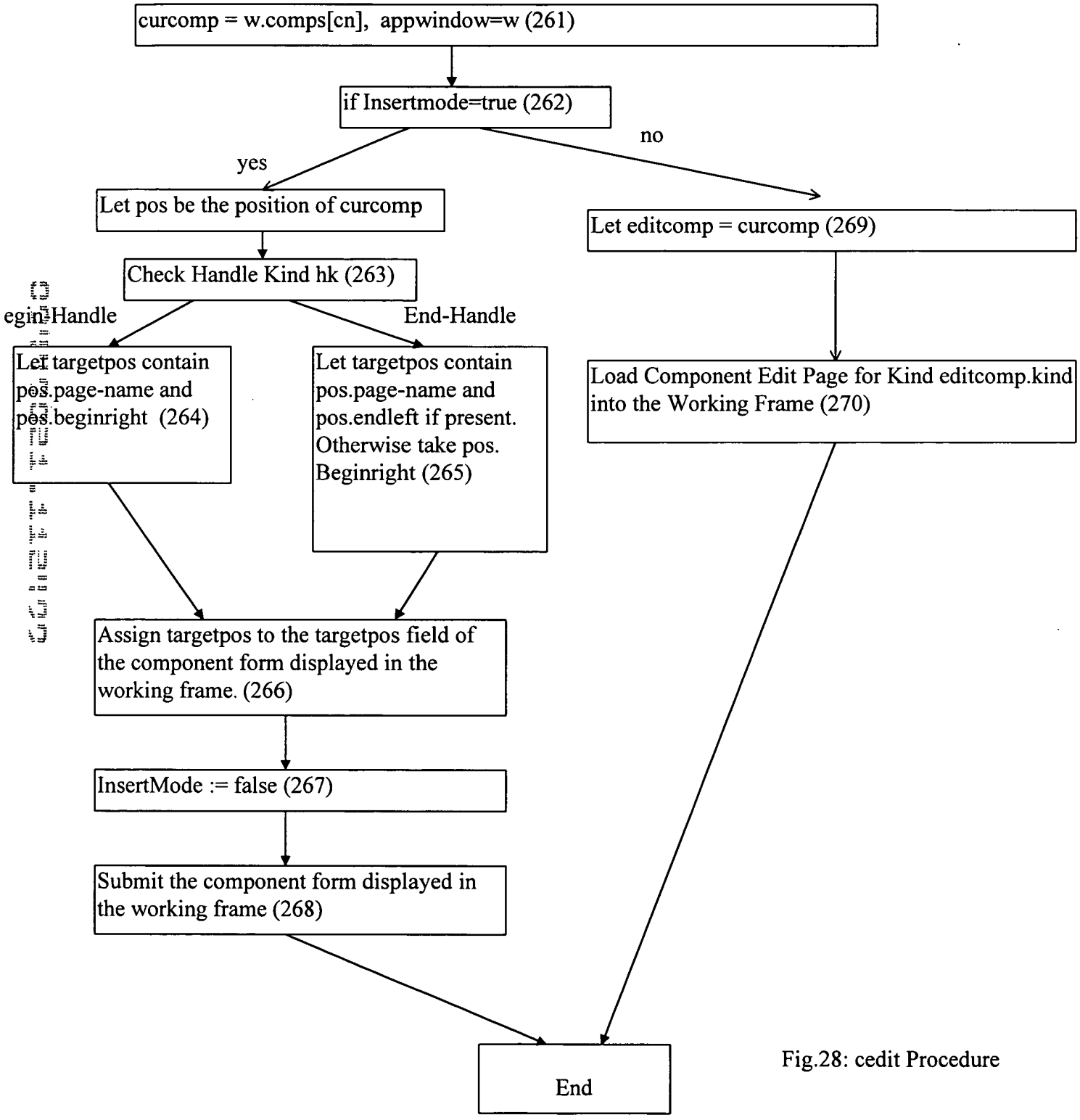


Fig.28: cedit Procedure

Component Edit Page

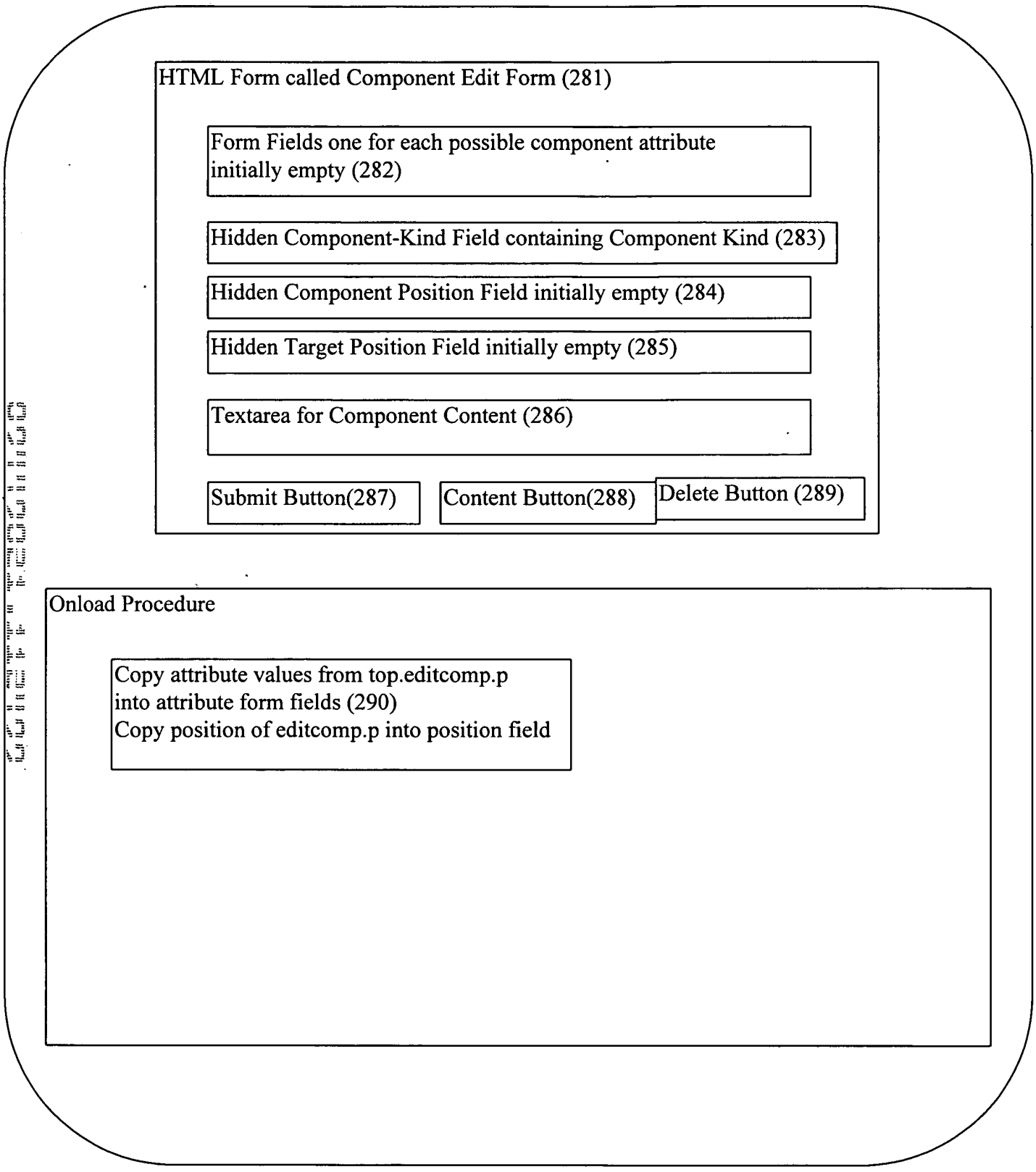


Fig.29: Component Edit Page

Component Editor Server Part

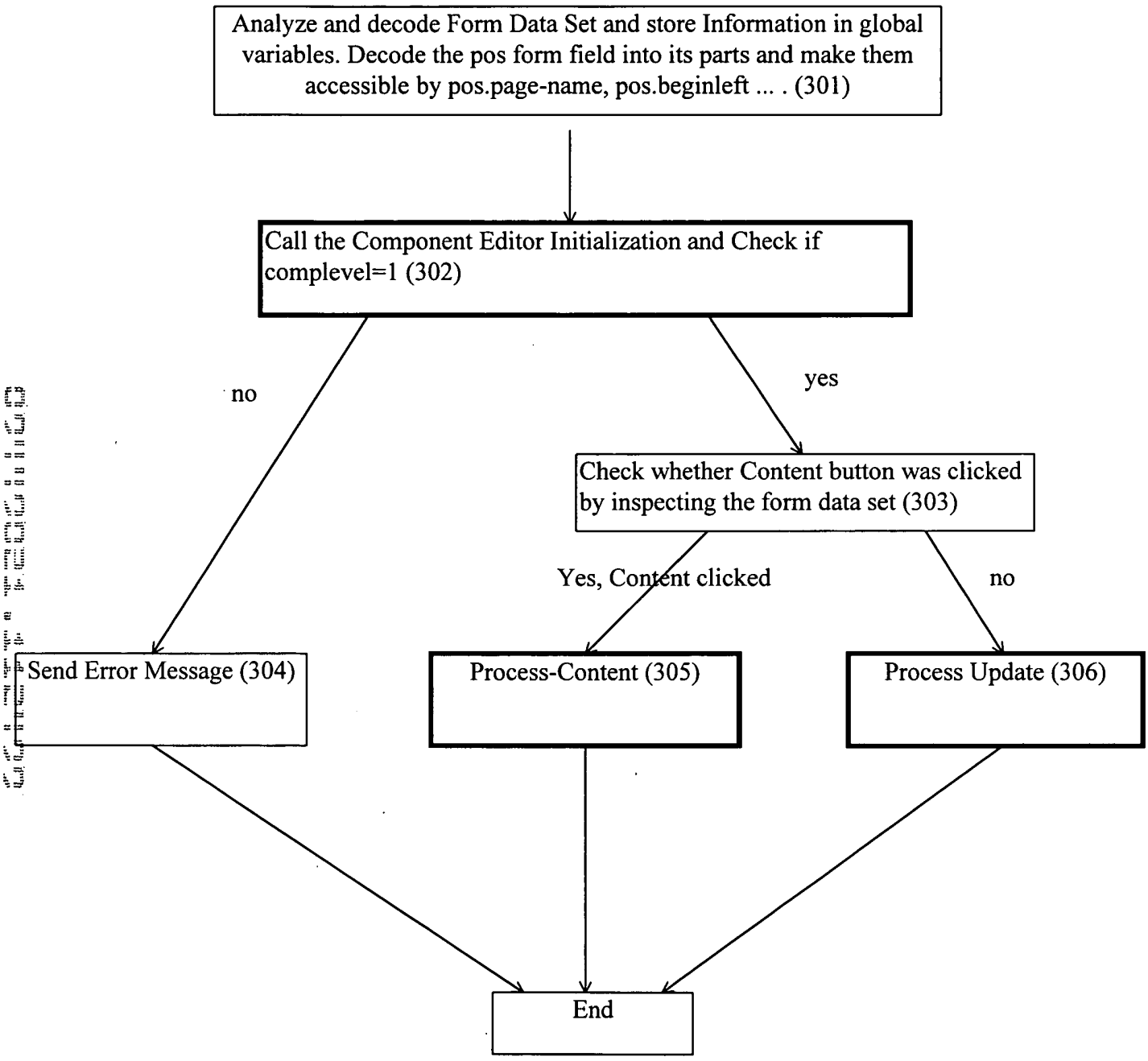


Fig.30: Component Editor Server Part

Process-Content Procedure

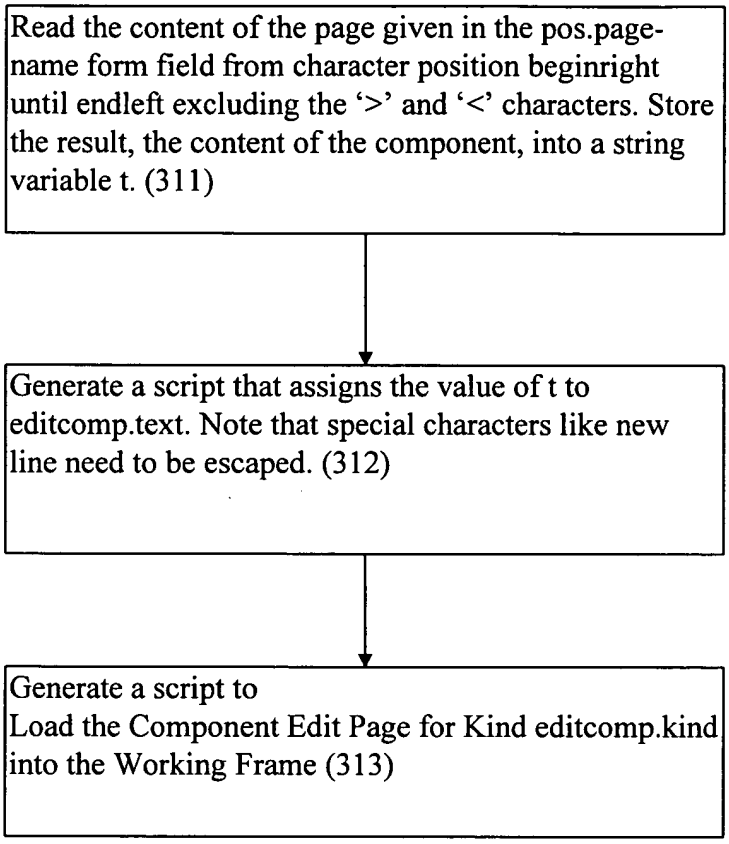


Fig.31: Process Content Procedure

Process Update

Parameter:

Decoded Form Data Set of component form

Decoded position pos

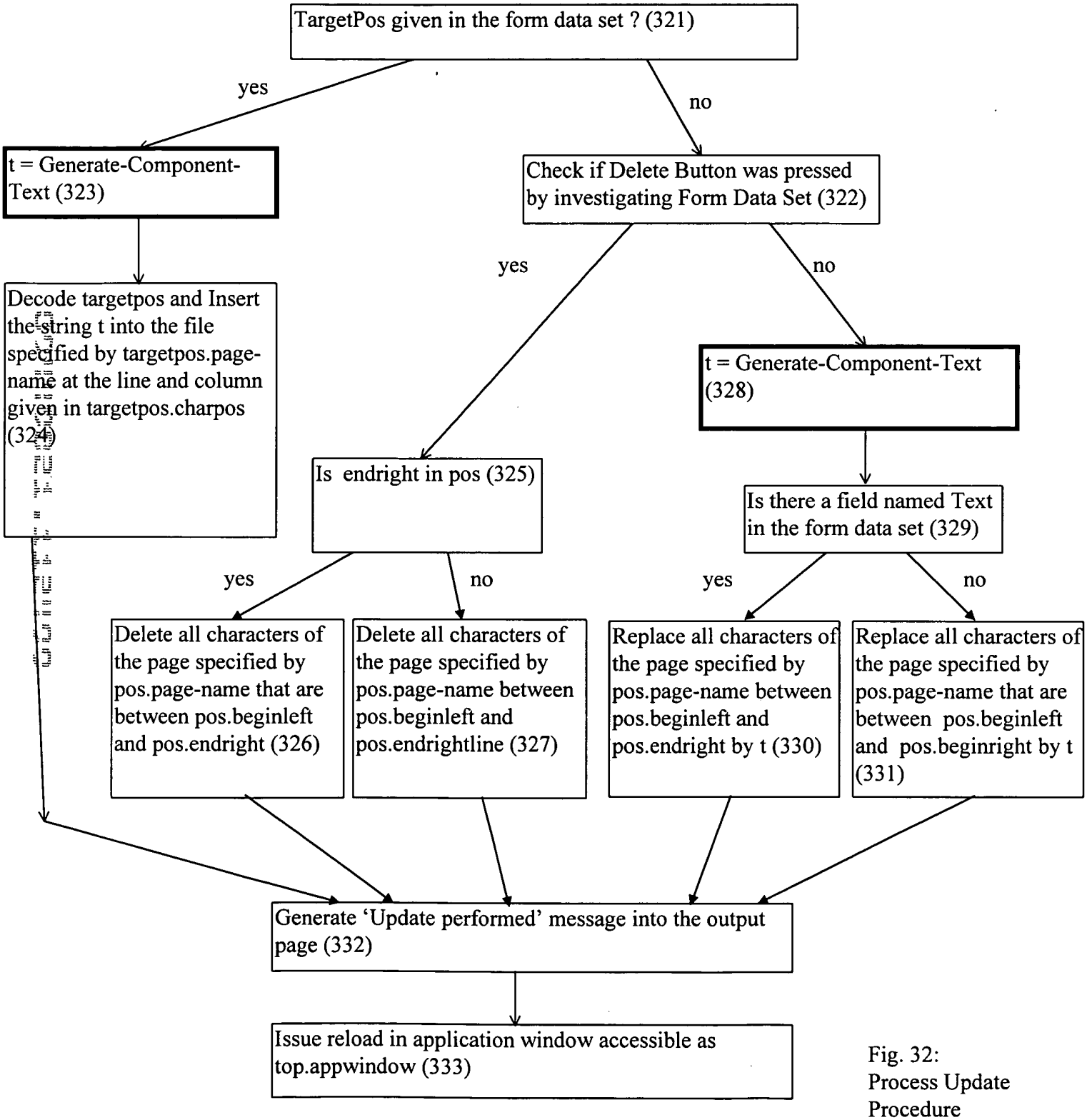


Fig. 32:
Process Update
Procedure

Generate-Component-Text Procedure

Parameters:
Decoded Form Data Set of Component Form

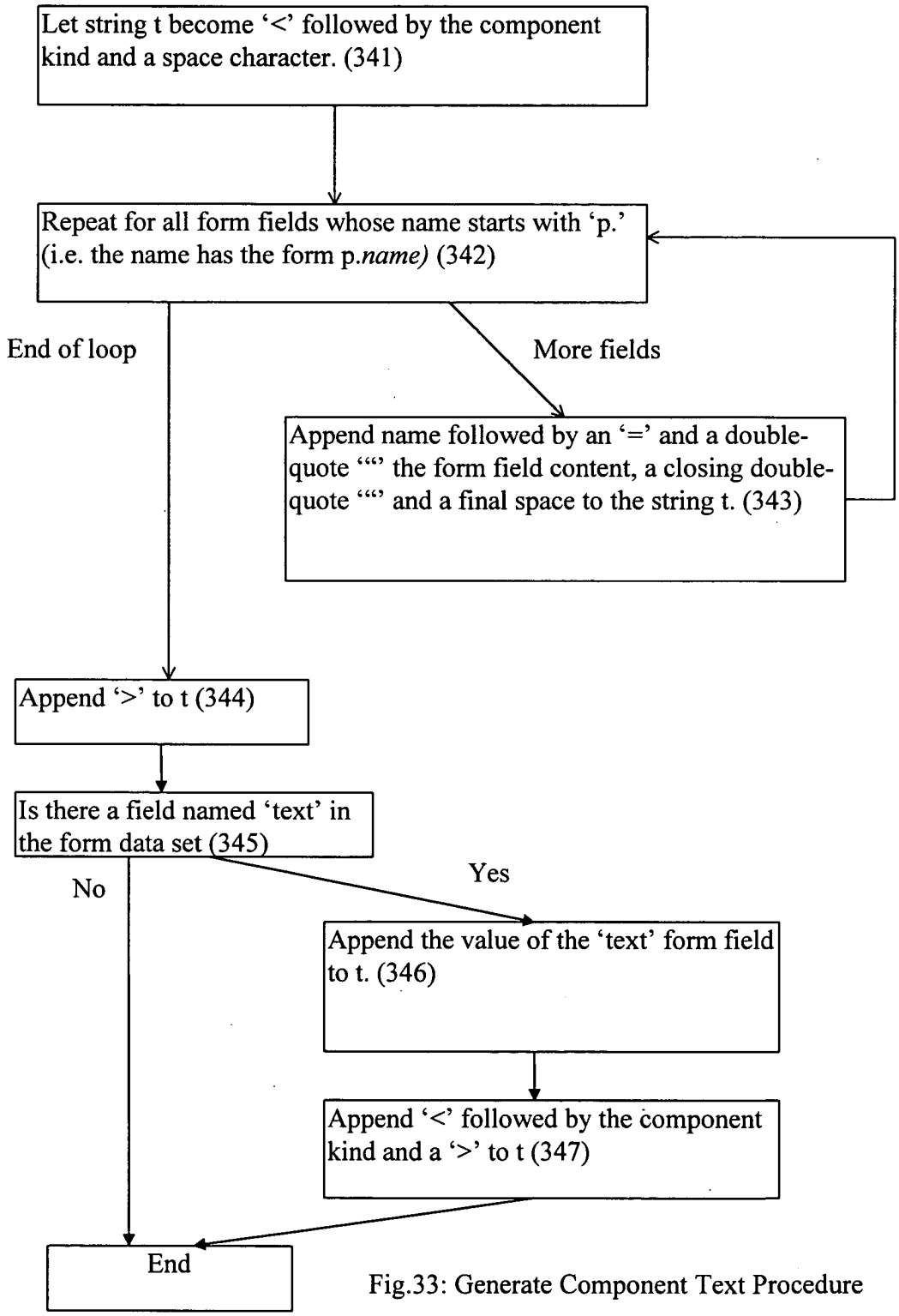


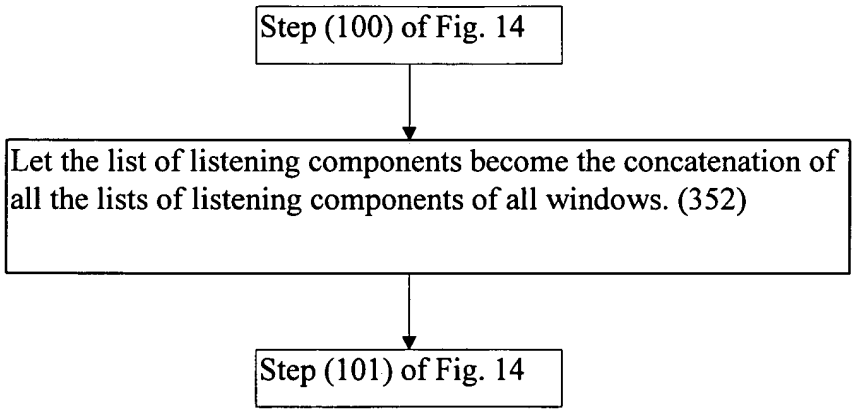
Fig.33: Generate Component Text Procedure

Multi-Window Applications

To make the generation algorithm work for multiple windows replace step (93) of the registration subprocedure of the generation algorithm by

Insert the component instance into that list of listening components that belongs to the destination window. (351)

Insert Step (352) before step (101) of Fig. 14



Replace Step (109) of Fig. 14 by (step 353)

Clear the list of listening components that belongs to the destination window (353)

Fig.34: Mutli-Window Applications

Persistent Components

(71) of Fig. 11 can be replaced by

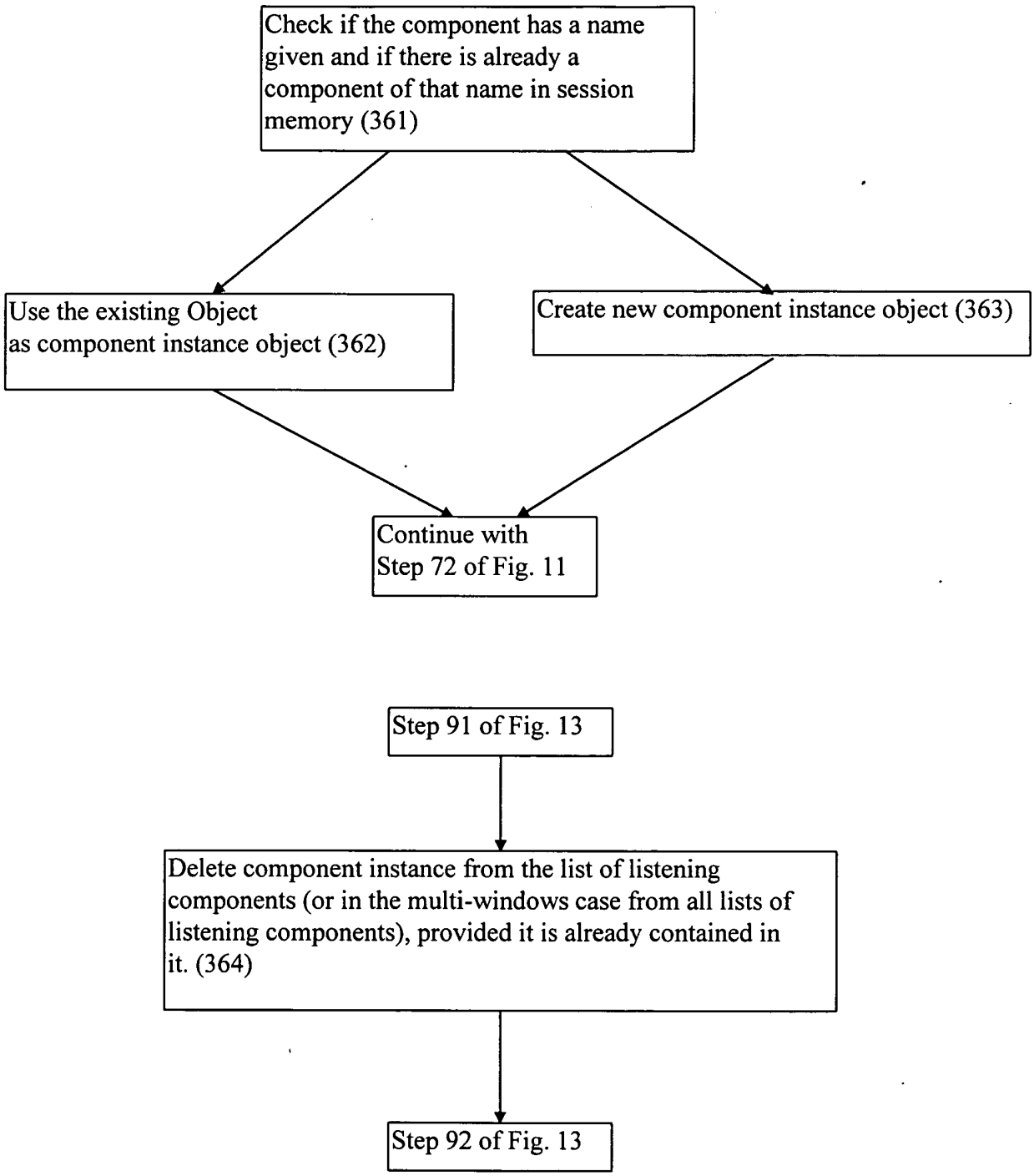


Fig.35: Persistent Components

Session Less ISSC

Session variables like bid counter, and list of listening components become global server variables shared for all users.

Step 109 of page 114 becomes:

Remove all component objects from the list of listening components that were added longer than a fixed time-out value ago. (371)

Fig. 36: Session Less ISSC